

(FILE '1MOBILITY, 2MOBILITY' ENTERED AT 14:03:28 ON 20 SEP 2002)

L1	1865 S	MOTORCYCLE? OR MOTOR CYCLE? OR MOTOR BIKE? OR MOTORBIKE?
L2	127 S	AMPLIFIER?
L3	557 S	AUDIO
L4	166 S	CAPACITOR?
L5	522 S	POWER() (SUPPL? OR BATTER?)
L6	466 S	(COMPACT()DIS? OR CD OR CASSETTE? OR MINIDIS? OR MP3)
L7	0 S	L1 AND L2 AND L3 AND L4
L8	0 S	L3 AND L4 AND L5
L9	2 S	L1 AND L6

L9 ANSWER 1 OF 2 1MOBILITY COPYRIGHT 2002 SAE

AN 96:5638 1MOBILITY

DN 962527

TI Relationship between discharge coefficients and accuracy of engine simulation

AU Blair, G. P.(Queen's University of Belfast); Drouin, F. M. M.(Ecole Nationale Supérieure d'Arts et Métiers)

SO (1996 Dec) . Society of Automotive Engineers, Inc., Warrendale, Pennsylvania, USA. Also published in: P-304.

Meeting Info.: Motorsports Engineering Conference and Exposition. Dearborn, Michigan, USA. 1996 Dec 10 - 1996 Dec 12.

CY United States

DT Conference Article; (Technical Paper)

FS SAE

LA English

L9 ANSWER 2 OF 2 1MOBILITY COPYRIGHT 2002 SAE

AN 94:8859 1MOBILITY

DN 93A068

TI Prediction of fuel supply characteristics on **motor cycle** by intake system simulation

AU Furuyama, M.(Chiba Univ.); Ishii, Y.(Isuzu Motor Co.); Horiguchi, R.(KAO Corp.)

SO (1993 Dec) . Associazione Tecnica dell'Automobile, Torino, Italy. Other Number: 931485.

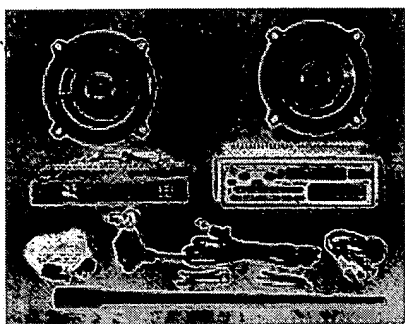
Meeting Info.: Small Engine Technology Conference. Pisa, Italy. 1993 Dec 01 - 1993 Dec 03.

CY Italy

DT Conference Article; (Technical Paper)

FS ATA

LA English



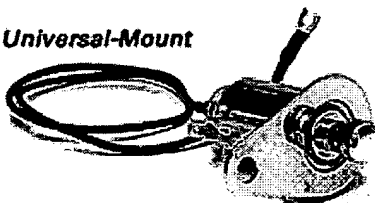
## Deluxe Stereo Bag Of Tunes

### DELUXE STEREO BAG OF TUNES® WITH

**HANDLEBAR-MOUNT-BAG** Once bike has been wired mount this self-contained stereo system or dismount it and take it with you. Fits all street bikes except the following sport bike models: Honda CBR; Kawasaki EX GPZ or ZX; Suzuki GXS or GSX-R; Yamaha FZ ZR YX or YZF. Handlebar-mount bag (with quick-connect wiring harness only) also sold separately. Complete 12-volt portable sound package fits snugly in bag. Assembly and wiring of components together is required. Kit includes mounting wiring and assembly instructions. Jensen® AM/FM Stereo Radio/Auto-reverse Cassette Player: Precise electronic frequency tuning volume/bass/treble and balance controls; 30 station push-button presets (18 FM/12 AM); automatic seek and scan enters strongest stations into memory; local/distance sensitivity; backlit LCD frequency/function display; push-button bass booster; locking fast forward/reverse; digital clock; CD input; 100-Watt total output (25-Watts x 4 channels). Jensen® 60-Watt 7-band Graphic Amplifier/Equalizer: Custom tailor sound output.  $\pm 12$ dB cut/boost range. Sliding controls. Backlit 3-color level meter. Frequency response: 20 Hz to 20 kHz. 2 Jensen® 2-way Coaxial Speakers: Water-resistant injection-molded poly cones with adjustable 13mm swivel tweeter for better sound direction. Handlebar kit has 5-1/4" x 5-1/4" speakers with 105-Watt peak power/pair. AM/FM Radio Antenna: 15" flexible black vinyl mast with adjustable bracket. Quick-connect 2-part Wiring Harness: Plug-together trimmable 6-ft. harness for easy hookup to cycle's electrical system; one part mounts permanently to cycle other part mounts to sound system. Patch Cord: 18" cord with gold-plated RCA connectors to minimize signal loss and ensure no-hassle radio/amp hookups. Handlebar-mount Bag: Black heavyweight polyester duck with coated nylon lining for water resistance. 2 straps with hook/loop closures secure radio and amp inside bag. Padded panel protects equipment from vibration and scratches. Attaches to handlebars or mirror mounts with adjustable web straps. Radio amp and wire fit in top-loading middle compartment. Compartment top with overlapping sides secures with zipper or fast-to-open hook/loop material. Left- and right-side speaker compartments (with mesh front panel) hold 5" x 5" or 6" x 6" speakers. 2 front pockets.

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**CUSTOM FAIRING-MOUNT LIGHTER** Mounts on the inner shell of your full fairing (drilling required). Large knob has black rubber-like hood to resist water and moisture 12-volt. With pigtails and connectors for 2-wire hookup.

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File 344:Chinese Patents Abs Aug 1985-2002/Sep  
(c) 2002 European Patent Office  
File 347:JAPIO Oct 1976-2002/May(Updated 020903)  
(c) 2002 JPO & JAPIO  
File 348:EUROPEAN PATENTS 1978-2002/Sep W02  
(c) 2002 European Patent Office  
File 349:PCT FULLTEXT 1983-2002/UB=20020912,UT=20020905  
(c) 2002 WIPO/Univentio  
File 350:Derwent WPIX 1963-2002/UD,UM &UP=200260  
(c) 2002 Thomson Derwent

Set	Items	Description
S1	293	AU=(BARNES, R? OR BARNES R?)
S2	2	S1 AND (MOTORCYCLE? OR MOTOR()CYCLE?)

2/5,K/1 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2002 WIPO/Univentio. All rts. reserv.

00909198 \*\*Image available\*\*

**MOTORCYCLE SOUND SYSTEM**  
**SYSTEME SONORE POUR MOTOCYCLES**

Patent Applicant/Inventor:

**BARNES Richie D**, 41 Canterbury Court, Columbia, SC 29210, US, US  
(Residence), US (Nationality)

Legal Representative:

**HARDAWAY John B III** (et al) (agent), Nexsen Pruet Jacobs & Pollard, LLC,  
P.O. Box 10107, Greenville, SC 29603, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200243254 A1 20020530 (WO 0243254)

Application: WO 2001US45522 20011115 (PCT/WO US0145522)

Priority Application: US 2000721184 20001121

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04B-001/00

International Patent Class: H04R-001/02; B60R-007/00; B62J-009/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Claims

Fulltext Word Count: 818

**English Abstract**

The present invention is a sound system (12) for sportsbike-type **motorcycles** that uses a capacitor (16) in electrical connection with the battery (14) and amplifier (22) in order to provide audio response during dynamic highs; as a result, the sound does not lack "punch". The sound system is incorporated into existing structures in the sports bike and cannot therefore be observed by passers-by and is therefore less vulnerable to theft or vandalism. Also, the profile and aerodynamics, and therefore performance characteristics, are not changed by the integration of the sound system within the existing structures of a sportsbike. Furthermore, the sound system if incorporated into the cowling structure, can be packaged as an aftermarket option and mounted on a sportsbike without significant modification, since the cowling used to contain the system is preferably selected from commercially-available options from the manufacturer.

**French Abstract**

L'invention concerne un systeme sonore (12) destine a des motocycles de type motos sport, qui utilise un condensateur (16) en connexion electrique avec la batterie (14) et l'amplificateur (22) afin de fournir une reponse acoustique au cours de regimes maximum dynamiques, le son ne manquant par consequent pas de <= punch >=. Le systeme sonore est integre a des structures existantes dans la moto sport et ne peut, par consequent, pas etre remarque par les passants. Il sera donc moins sujet au vol ou au vandalisme. Le profil et l'aerodynamique, par ailleurs, et donc les caracteristiques de performance, ne se trouvent pas modifiees par l'integration du systeme sonore dans les structures existantes d'une moto sport. Le systeme sonore, en outre, s'il est integre a la structure de capot, peut etre disponible comme option apres-vente sans grande modification, etant donne que le capot utilise pour contenir le systeme est de preference selectionne parmi des options commercialement disponibles chez le fabriquant.

Legal Status (Type, Date, Text)

means for communicating signals from said audio component; and a speaker. I 0. A **motorcycle** sound system as recited in claim 9, wherein said **motorcycle** is 5 a sportsbike having existing structures, and wherein said audio component, said conducting means...

...mounting means and said communicating means are housed within said existing structures.

I 1. A **motorcycle** sound system as recited in claim 9, wherein said audio component is selected from the...

...cassette player, a minidisc player, a digital audiotape player, and an MP3 player.

12 A **motorcycle** sound system as recited in claim 9, further comprising:  
at least one auxiliary audio component operably connected to said audio component.

13 A **motorcycle** sound system as recited in claim 12, wherein said audio component is selected from the...

...audio cassette player, minidisc player, digital audiotape player, MP3 player, amplifier, and equalizer.

14 A **motorcycle** sound system as recited in claim 9, wherein said sportsbike has existing structures and wherein said speaker is housed within said existing structures.

15 A **motorcycle** sound system as recited in claim 14, wherein said existing structure is selected from the...

...comprising existing structures, and wherein said speaker is housed within said existing structure.

20 A **motorcycle** as recited in claim 19, wherein said existing structure is selected from the group consisting...

2/5,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014698810 \*\*Image available\*\*  
WPI Acc No: 2002-519514/200255  
XRPX Acc No: N02-411212

A sound system for a sports motorcycle includes a battery, a capacitor, stereo receiver, players and an amplifier located in a cowling, and speakers incorporated into rearview mirror, turn signal or brake light casings

Patent Assignee: BARNES R D (BARN-I)

Inventor: BARNES R D

Number of Countries: 098 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200243254	A1	20020530	WO 2001US45522	A	20011115	200255 B

Priority Applications (No Type Date): US 2000721184 A 20001121

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200243254	A1	E	16 H04B-001/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

Abstract (Basic): WO 200243254 A1

NOVELTY - A sound system (12) includes a standard **motorcycle** battery (14) in electrical connection with a capacitor (16). A stereo receiver, compact disc player, audio cassette player, minidisc player, digital audio tape player or MP3 player act as audio (18) or auxiliary audio (20) components. An amplifier (22) drives speakers (24) incorporated into rearview mirror, turn signal or brake light casings and all other components are located in the cowling.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a sports **motorcycle** including a sound system having all components incorporated into existing structures of the **motorcycle**.

USE - The sound system is used for a sports **motorcycle**.

ADVANTAGE - The sound system is not obvious and is therefore not susceptible to theft. The profile and aerodynamics of the **motorcycle** are not changed. The system can be sold as an after-market product.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic diagram of a sound system.

Sound system (12)

Battery (14)

Capacitor (16)

Audio component (18)

Auxiliary audio component (20)

Power amplifier (22)

Speakers (24)

pp; 16 DwgNo 1/5

Title Terms: SOUND; SYSTEM; SPORTS; **MOTORCYCLE**; BATTERY; CAPACITOR; STEREO; RECEIVE; PLAY; AMPLIFY; LOCATE; COWLING; SPEAKER; INCORPORATE; MIRROR; TURN; SIGNAL; BRAKE; LIGHT; CASING

Derwent Class: Q17; Q23; V06; W02; X22

International Patent Class (Main): H04B-001/00

International Patent Class (Additional): B60R-007/00; B62J-009/00;

H04R-001/02

File Segment: EPI; EngPI

**A sound system for a sports motorcycle includes a battery, a capacitor, stereo receiver, players and an amplifier located in a cowling...**

Inventor: **BARNES R D**

Abstract (Basic):

... A sound system (12) includes a standard **motorcycle** battery (14) in electrical connection with a capacitor (16). A stereo receiver, compact disc player...

... An INDEPENDENT CLAIM is also included for a sports **motorcycle** including a sound system having all components incorporated into existing structures of the **motorcycle**.

...

...The sound system is used for a sports **motorcycle**.

...

...not obvious and is therefore not susceptible to theft. The profile and aerodynamics of the **motorcycle** are not changed. The system can be sold as an after-market product

...Title Terms: **MOTORCYCLE**;

## 8. References

- [1] R. B. Herbert, "High-efficiency power amplifier," U.S. Pat. 3,585,517, June 1971.
- [2] J. Hancock, "A class D amplifier using MOSFETs with reduced minority carrier life-time," *J. Audio Eng. Soc.*, vol. 29, no. 9, pp. 650-662, Sep. 1991.
- [3] F. A. Himmelstoss, K. H. Edlmoser and C. C. Anselmi, "Analysis of a quality class-D amplifier," *IEEE Trans. Consumer Electron.*, vol. 42, no. 3, pp. 860-864, Aug. 1996.
- [4] M. Masini and L. Pagotto, "Mono class-D amplifiers," AN1013, ST Microelectronics, Via C. Olivetti 2, I-20041, Agrate Brianza (MI), Italy, Feb. 1998.
- [5] F. A. Himmelstoss and K. H. Edlmoser, "High dynamic class-D power amplifier," *IEEE Trans. Consumer Electron.*, vol. 44, no. 4, pp. 1329-1333, Nov. 1998.
- [6] S. Čuk and R. W. Erickson, "A conceptually new high-frequency switched-mode power amplifier technique eliminates current ripple," in *Proc. of Powercon 5, the Fifth National Solid-State Power Conversion Conference*, San Francisco, CA, USA, May 4-6, 1978.
- [7] G. R. Stanley, "Opposed current power converter," U.S. Pat. 5,657,219, Aug. 1997.
- [8] G. R. Stanley and K. M. Bradshaw, "Precision DC-to-AC power conversion by optimization of the output current waveform – the half bridge revisited," *IEEE Trans. Power Electron.*, vol. 14, no.2, pp. 372-380, Mar. 1999.
- [9] K. Michael and U. Klingauf, "Elektromagnetischer konverter," Ger. Pat. DE3716826A1, Dec. 1988.
- [10] M. Prokin, "Boost bridge audio amplifier," *IEEE Trans. Consumer Electron.*, vol. 47, no. 2, pp. 214-224, May 2001.
- [11] D. Self, "Audio power analysis," *Electronics World*, pp.1033-1038, Dec. 1999.

## Biography



**Milan Prokin** was born in Yugoslavia in 1963. He received the B.S.E.E., M.S.E.E. and Ph.D. degree in 1986, 1988 and 1990, respectively, from Faculty of Electrical Engineering, The University of Belgrade, Yugoslavia.

He joined the Department of Electronics at the same institution in 1986, where he is presently an associate professor. His research areas are switching amplifiers, inverters, real-time control, microcontroller applications and development of advanced I/O devices.



File 344:Chinese Patents Abs Aug 1985-2002/Sep  
(c) 2002 European Patent Office  
File 347:JAPIO Oct 1976-2002/May(Updated 020903)  
(c) 2002 JPO & JAPIO  
File 350:Derwent WPIX 1963-2002/UD,UM &UP=200260  
(c) 2002 Thomson Derwent

Set	Items	Description
S1	21730	MOTORCYCLE? OR MOTOR() (CYCLE? OR BIKE?) OR MOTORBIKE?
S2	3852	SCOOTER? OR VESPA OR MOPED OR SPORTSBIKE?
S3	49063	(SOUND OR RADIO OR STEREO OR AUDIO) (3N)SYSTEM?
S4	100829	AUDIO
S5	378182	AMPLIF?
S6	266476	CAPACITOR?
S7	488633	POWER()SUPPL? OR BATTER?
S8	361	(INCORP? OR MOUNT? OR JOIN? OR INSTALL? OR ATTACH?) (3N)COW-LING
S9	9680	(COMPACT()DIS?? OR CD OR CASSETTE OR MINIDIS?? OR MP3) (3N)-PLAYER?
S10	200	S4 AND S5 AND S6 AND S7
S11	16	S4(3N)S5 AND S6(3N)S7
S12	14	S11 NOT AD=20001121:20020920
S13	300	S6(5N) (HOUSED OR INCORP? OR MOUNT? OR JOIN? OR INSTALL? OR ATTACH?) (3N)S7
S14	1	S13 AND S4 AND S5
S15	0	S14 NOT S11
S16	1	S10 AND (S1 OR S2)
S17	0	S16 NOT S11

12/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03727406 \*\*Image available\*\*  
**AUDIO AMPLIFIER CIRCUIT USING VACUUM TUBE**

PUB. NO.: 04-092506 [JP 4092506 A]  
PUBLISHED: March 25, 1992 (19920325)  
INVENTOR(s): YAMADA KAZUTOSHI  
APPLICANT(s): YAMADA KAZUTOSHI [0000000] (An Individual), JP (Japan)  
APPL. NO.: 02-210908 [JP 90210908]  
FILED: August 07, 1990 (19900807)  
JOURNAL: Section: E, Section No. 1233, Vol. 16, No. 322, Pg. 15, July  
14, 1992 (19920714)

**AUDIO AMPLIFIER CIRCUIT USING VACUUM TUBE**

**ABSTRACT**

...of a vacuum tube V2 is connected to an input terminal 1 via a coupling capacitor C11. A C power supply 2, i.e., a negative voltage source which applies the negative voltage to the grid...

12/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

02881905 \*\*Image available\*\*  
**AUDIO AMPLIFIER CIRCUIT**

PUB. NO.: 01-179505 [JP 1179505 A]  
PUBLISHED: July 17, 1989 (19890717)  
INVENTOR(s): TSUN KENZO  
APPLICANT(s): ROHM CO LTD [365425] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 63-003509 [JP 883509]  
FILED: January 11, 1988 (19880111)  
JOURNAL: Section: E, Section No. 833, Vol. 13, No. 463, Pg. 19,  
October 19, 1989 (19891019)

**AUDIO AMPLIFIER CIRCUIT**

**ABSTRACT**

... at application of power by starting charging to a 2nd capacitor in response to the power supply, charging the capacitor to a voltage steeper and higher than that of a 1st capacitor and stopping the...

12/3,K/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

00737801 \*\*Image available\*\*  
**ACOUSTIC APPARATUS**

PUB. NO.: 56-058101 [JP 56058101 A]  
PUBLISHED: May 21, 1981 (19810521)  
INVENTOR(s): OKADA KUNIO  
APPLICANT(s): NIPPON CHEMICON CORP [328741] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 54-133290 [JP 79133290]  
FILED: October 16, 1979 (19791016)  
JOURNAL: Section: P, Section No. 73, Vol. 05, No. 118, Pg. 10, July  
30, 1981 (19810730)

**ABSTRACT**

...CONSTITUTION: For the audio amplifier 1, the aluminum material to

which either one or both of the carbon powder and...

... 4, heat sink 5, external case of the power supply transformer, external case of the **power supply capacitor**, and the like. The aluminum material with addition of the carbon powder or the silica...

12/3,K/4 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014363560 \*\*Image available\*\*

WPI Acc No: 2002-184261/200224

XRPX Acc No: N02-140447

**Bias circuit for audio amplifier, has differential amplifier with pair of transistors whose emitters are connected to constant current source and collectors output cut-off signal to stop output circuit operation**

Patent Assignee: SHIN NIHON MUSEN KK (NIUR )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002026663	A	20020125	JP 2000209551	A	20000711	200224 B

Priority Applications (No Type Date): JP 2000209551 A 20000711

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002026663	A		7 H03F-001/00	

**Bias circuit for audio amplifier, has differential amplifier with pair of transistors whose emitters are connected to constant current source and collectors output...**

Abstract (Basic):

... transistor (1) is connected to common node of voltage divider resistors (11,12) connected between **power supply** and ground. A **capacitor** (13) is connected across resistor (12) and a specified voltage is applied to base of transistor (2). Collectors of transistors output cut-off signal to **audio amplifier** during power interruption.  
... Bias circuit for **audio amplifier**.  
...

...The figure shows the circuit diagram of bias circuit for **audio amplifier**.

12/3,K/5 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013997948 \*\*Image available\*\*

WPI Acc No: 2001-482163/200152

XRPX Acc No: N01-356860

**Audio power amplifier circuit has multiple decoupling resistors and decoupling capacitors for connecting power supply to two triodes and output terminals**

Patent Assignee: ATMA SPHERE MUSIC SYSTEMS INC (ATMA-N)

Inventor: KARSTEN R R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6242977	B1	20010605	US 99320308	A	19990526	200152 B

Priority Applications (No Type Date): US 99320308 A 19990526

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6242977	B1	11	H03F-003/00	

Audio power amplifier circuit has multiple decoupling resistors and decoupling capacitors for connecting power supply to two triodes and output terminals

12/3,K/6 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012081786 \*\*Image available\*\*  
WPI Acc No: 1998-498697/199843  
XRPX Acc No: N98-389690

Low distortion audio amplifier - has output stage of amplifier placed inside feedback loop of high gain amplifier which is frequency compensated by dominant pole feedback capacitor , with power supply to high gain section tracking output signal

Patent Assignee: BHC CONSULTING PTY LTD (BHCC-N)

Inventor: CANDY B H

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2324217	A	19981014	GB 987474	A	19980407	199843 B
AU 9860703	A	19981008	AU 9860703	A	19980407	199901
JP 10322138	A	19981204	JP 9894389	A	19980407	199908
US 6052027	A	20000418	US 9854070	A	19980406	200026
AU 732846	B	20010503	AU 9860703	A	19980407	200129
GB 2324217	B	20020313	GB 987474	A	19980407	200226

Priority Applications (No Type Date): AU 976657 A 19970407

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2324217	A		31	H03F-001/34	
AU 9860703	A			H03F-001/34	
JP 10322138	A		42	H03F-001/34	
US 6052027	A			H03F-003/45	
AU 732846	B			H03F-001/34	Previous Publ. patent AU 9860703
GB 2324217	B			H03F-001/34	

Low distortion audio amplifier - ...

...inside feedback loop of high gain amplifier which is frequency compensated by dominant pole feedback capacitor , with power supply to high gain section tracking output signal

...Abstract (Basic): USE - For error correction in high fidelity audio amplifier .

12/3,K/7 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2002 Thomson Derwent. All rts. reserv.

011786234 \*\*Image available\*\*  
WPI Acc No: 1998-203144/199818  
XRPX Acc No: N98-161854

Bias oscillation circuit for video tape recorder - has audio head operated by recording current from output capacitor and recording amplifier to record audio signal on magnetic tape

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10055502	A	19980224	JP 96210946	A	19960809	199818 B

Priority Applications (No Type Date): JP 96210946 A 19960809

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 10055502 A 8 G11B-005/03

... has audio head operated by recording current from output capacitor and recording amplifier to record audio signal on magnetic tape

...Abstract (Basic): transformer. A resistor (6) supplies a base current required to operate the transistor, from the power supply. A feedback capacitor (7) connected to the fourth terminal of the transformer, shapes the oscillation waveform...

...terminal of the transformer, decides the amount of an oscillation voltage. A recording amp (12) amplifies an audio signal input from an external source. An audio head (11) operated by the current from output capacitor and recording amplifier, records an audio signal on the magnetic tape...

12/3,K/8 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011622592 \*\*Image available\*\*  
WPI Acc No: 1998-039720/199804  
XRPX Acc No: N98-032192

Amplifier circuit for audio apparatus mounted in motor vehicle - has holding circuit which maintains operation state of second power supply circuit to keep operation of protection circuit, provided for abnormal connection of output end of amplifier, when standby switch turns OFF

Patent Assignee: SANYO ELECTRIC CO LTD (SAOL )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9294028	A	19971111	JP 96107817	A	19960426	199804 B

Priority Applications (No Type Date): JP 96107817 A 19960426

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9294028	A		5	H03F-001/52	

Amplifier circuit for audio apparatus mounted in motor vehicle...

...Abstract (Basic): power supply circuit supplies voltage to the amplifier based on the terminal voltage of the capacitor. A second power supply circuit applies voltage to the protection circuit when the standby switch is turned ON...

12/3,K/9 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011365506  
WPI Acc No: 1997-343413/199732  
XRPX Acc No: N97-284787

Phase reversing stage arrangement for multi-channel amplifier - inverts incoming signals for channel, with another inversion at output of channel, so that original phase is finally restored

Patent Assignee: WINKELMANN R (WINK-I)  
Inventor: WINKELMANN R  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19705800	A1	19970703	DE 1005800	A	19970215	199732 B

Priority Applications (No Type Date): DE 1005800 A 19970215

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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...Abstract (Basic): USE/ADVANTAGE - For **audio** power **amplifiers** . Leads to reduction in cost of equipment using smaller **capacitors** in **power supply** .

12/3,K/10 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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008344365  
WPI Acc No: 1990-231366/199030  
XRPX Acc No: N90-179582

**Four quadrant high voltage DC to AC buck converter - has switching mechanism and commutator for changing current to common node from PSU using switches**

Patent Assignee: ZENITH ELECTRONICS CORP (ZENI )  
Inventor: DIAZ B  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4941076	A	19900710	US 89374689	A	19890630	199030 B

Priority Applications (No Type Date): US 89374689 A 19890630; US 88256872 A 19881012

...Abstract (Basic): The voltage converter has a common leg of an inductor in series with an output **capacitor** . One **power supply** provides a positive and negative voltage output signal to two solid-state switches joined at...

...USE/ADVANTAGE - In copier and in class D amplifier in motor control and **audio amplifier** applications. Maintains constant current output and uniform sinusoid. Overshoot protection. (15pp Dwg.No.5/11)

12/3,K/11 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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008098944 \*\*Image available\*\*  
WPI Acc No: 1989-364056/198949  
XRPX Acc No: N89-276846

**High voltage DC to AC converter - has overcurrent protection, undervoltage lockout, overshoot protection and RMS conversion**

Patent Assignee: ZENITH ELECTRONICS CORP (ZENI )  
Inventor: DIAZ B  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4872100	A	19891003	US 88256872	A	19881012	198949 B

Priority Applications (No Type Date): US 88256872 A 19881012

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
US 4872100 A 17

...Abstract (Basic): quadrant buck converter has a common leg of an inductor in series with an output **capacitor** , one **power supply** for providing a positive voltage output signal and negative voltage output signal to two solid...

...USE - Photocopier, motor control, **audio amplifier** .

12/3,K/12 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX

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007617779      \*\*Image available\*\*

WPI Acc No: 1988-251711/198836

XRPX Acc No: N88-191452

**Pop noise suppression circuit for audio amplifier - forcibly discharges residual charges on ripple removing and negative feedback capacitors when power supply turned off**

Patent Assignee: TOSHIBA AUDIO VIDEO ENG CO (TOSA ); TOSHIBA AVE CO LTD (TOSA ); TOSHIBA KK (TOKE ); TOSHIBA AVE KK (TOSA )

Inventor: KAWAI H

Number of Countries: 008    Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 281117	A	19880907	EP 88103206	A	19880302	198836    B
JP 63217804	A	19880909	JP 8751350	A	19870306	198842
US 4788508	A	19881129	US 88162692	A	19880301	198850
KR 9007921	B	19901023				199204
EP 281117	B1	19950906	EP 88103206	A	19880302	199540
DE 3854406	G	19951012	DE 3854406	A	19880302	199546
			EP 88103206	A	19880302	

Priority Applications (No Type Date): JP 8751350 A 19870306

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 281117	A	E 10		
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Designated States (Regional): DE FR GB NL SE

US 4788508	A	8		
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EP 281117	B1	E 11	H03G-003/34	
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Designated States (Regional): DE FR GB

DE 3854406	G		H03G-003/34	Based on patent EP 281117
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**Pop noise suppression circuit for audio amplifier - ...**

**...forcibly discharges residual charges on ripple removing and negative feedback capacitors when power supply turned off**

...Abstract (Basic): circuit comprises a bias unit (10), inserted between power supply circuits (2,3) of the **audio amplifier** (13), for providing, from a bias potential supply terminal (P10), a bias potential (E10), corresponding...

...2,3). A ripple filter (7) inserted between the non-inverting input (4) of the **audio amplifier** (13) and the bias potential supply terminal (P10) reduces ripple components in the bias potential...

...voltage (E7) of the capacitor (C9) being supplied to the non-inverting input of the **audio amplifier** (13...

...A negative feedback port (R12,R13,C8) feeds an output signal (Vout) of the **audio amplifier** (13) back to the inverting input (6) and includes a capacitor (C8) which is charged...

...voltage (E5) of the capacitor (C8) being supplied to the inverting input (6) of the **audio amplifier** (13). A forcible discharger (15) coupled to the capacitors (C9,C8) and the power supply...

...Abstract (Equivalent): A pop noise suppression circuit for an **audio amplifier** (13) having a non-inverting input (4), an inverting input (6), and an output terminal...

...bias means (10) inserted between first and second power supply circuits (2, 3) of said **audio amplifier** (13), for providing from a bias potential supply terminal (P10), a bias potential (E10) corresponding

...

...2, 3); ripple filter means (7), inserted between the non-inverting input (4) of said **audio amplifier** (13) and the bias potential supply terminal (P10) of said bias means, for reducing ripple...

...E7) fo said first capacitor (C9) being supplied to the non-inverting input of said **audio amplifier** (13); and negative feedback means (R12, R13, C8), inserted between the inverting input (6) and the output terminal (5) of said **audio amplifier** (13), for negatively feeding an output signal (VOUT) of said **audio amplifier** (13) back to the inverting input (6), said negative feedback means (R12, R13, C8) including...

...E5) of said second capacitor (C8) being supplied to the inverting input (6) of said **audio amplifier** (13); characterised by forcible discharging means (15), coupled to said first and second capacitors (C9

...Abstract (Equivalent): has a forcible discharging circuit which is not operated in a steady state of the **audio amplifier**.

...operated to forcibly discharge residual charges on the ripple removing capacitor and the negative feedback **capacitor** only when a **power supply** of the **audio amplifier** is turned off

12/3,K/13 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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002218202

WPI Acc No: 1979-17377B/197909

**Thermochemical burning gases concentration signaller - uses two bridge-connected transducers, tunnel diodes, inductive relaxation oscillators, DC- amplifier and audio or visual signaller**

Patent Assignee: MAKEEV MINE SAFETY (MAKE-R)

Inventor: KRIGMAN F E; NAZARENKO V I; TIMOSHENKO A T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 412540	A	19780608				197909 B

Priority Applications (No Type Date): SU 1628312 A 19710316

... **uses two bridge-connected transducers, tunnel diodes, inductive relaxation oscillators, DC- amplifier and audio or visual signaller**

...Abstract (Basic): tunnel diode voltage divider while its base is joined to a RC-network in the **power supply** circuit. The **capacitor** of the RC-network is shunted by the emitter-collector junction of the relaxator transistor.

12/3,K/14 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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001487833

WPI Acc No: 1976-F0747X/197622

**Pushpull power amplifier with transformer - uses blocking capacitors to decrease supply sources to one**

Patent Assignee: NOGIN V N (NOGI-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 476661	A	19751106				197622 B

Priority Applications (No Type Date): SU 1786402 A 19720506; SU 1781976 A 19720506

...Abstract (Basic): The push-pull **amplifier** for **audio** frequencies comprises two arms A & B, which have p-n-p and n-p-n...



...7) of the output transformer are joined to the top and bottom transistors and the **power supply** (10). The blocking **capacitors** (8, 9) are between series connected diodes (5A, 4B) and (4A, 5B) points.

File 2:INSPEC 1969-2002/Sep W3  
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File 6:NTIS 1964-2002/Sep W3  
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File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W3  
(c) 2002 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2002/Aug  
(c) 2002 ProQuest Info&Learning  
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(c) 2002 BLDSC all rts. reserv.  
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(c) 2002 Cambridge Sci Abs  
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File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Aug  
(c) 2002 The HW Wilson Co.  
File 144:Pascal 1973-2002/Sep W3  
(c) 2002 INIST/CNRS  
File 238:Abs. in New Tech & Eng. 1981-2002/Sep  
(c) 2002 Cambridge Scient. Abstr  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
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(c) 2002 The Gale Group  
File 483:Newspaper Abs Daily 1986-2002/Sep 18  
(c) 2002 ProQuest Info&Learning  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning

Set	Items	Description
S1	23775	MOTORCYCLE? OR MOTOR() (CYCLE? OR BIKE?) OR MOTORBIKE?
S2	4491	SCOOTER? OR VESPA OR MOPED OR SPORTSBIKE?
S3	112450	(SOUND OR RADIO OR STEREO OR AUDIO) (3N)SYSTEM?
S4	107051	AUDIO
S5	491073	AMPLIF?
S6	135635	CAPACITOR?
S7	352029	POWER()SUPPL? OR BATTER?
S8	7	(INCORP? OR MOUNT? OR JOIN? OR INSTALL? OR ATTACH?) (3N)COW-LING
S9	7647	(COMPACT()DIS?? OR CD OR CASSETTE OR MINIDIS?? OR MP3) (3N)-PLAYER?
S10	4874	AU=(BARNES, R? OR BARNES R?)
S11	60	S4 AND S5 AND S6 AND S7
S12	0	S11 AND (S1 OR S2)
S13	0	S11 AND S10
S14	52	S11 NOT PY=>2001
S15	71	(S4 OR S9) AND (S1 OR S2)
S16	1	S15 AND S4 AND S5
S17	1	S16 NOT S14
S18	6	RD S8 (unique items)
S19	797	(INCORP? OR MOUNT? OR JOIN? OR INSTALL? OR ATTACH?) AND (C-OMPACT()DIS?? OR CD OR CASSETTE OR MINIDIS?? OR MP3) (3N)PLAYE-R?
S20	4	S19 AND (S1 OR S2)
S21	4	S20 NOT (S14 OR S16 OR S8)
S22	4	RD S21 (unique items)
S23	0	S10 AND (S1 OR S2)

14/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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5598329 INSPEC Abstract Number: B9707-1265H-016

**Title: A 1.8-V digital- audio sigma-delta modulator in 0.8-  $\mu$  m CMOS**

Author(s): Rabii, S.; Wooley, B.A.

Author Affiliation: Center for Integrated Syst., Stanford Univ., CA, USA

Journal: IEEE Journal of Solid-State Circuits vol.32, no.6 p.783-96

Publisher: IEEE,

Publication Date: June 1997 Country of Publication: USA

CODEN: IJSCBC ISSN: 0018-9200

SICI: 0018-9200(199706)32:6L:783:DASD;1-S

Material Identity Number: I022-97006

U.S. Copyright Clearance Center Code: 0018-9200/97/\$10.00

Language: English

Subfile: B

Copyright 1997, IEE

**Title: A 1.8-V digital- audio sigma-delta modulator in 0.8-  $\mu$  m CMOS**

...Abstract: This paper examines the design and implementation of a CMOS Sigma Delta modulator for digital- **audio** A/D conversion that operates from a single 1.8-V **power supply**. A cascaded modulator that maintains a large full-scale input range while avoiding signal clipping at internal nodes is introduced. The experimental modulator has been designed with fully differential switched- **capacitor** integrators employing different input and output common-mode levels and boosted clock drivers in order to facilitate low voltage operation. Precise control of common-mode levels, high **power supply** noise rejection, and low power dissipation are obtained through the use of two-stage, class A/AB operational **amplifiers**. At a sampling rate of 4 MHz and an oversampling ratio of 80, an implementation of the modulator in a 0.8-  $\mu$  m CMOS technology with metal-to-polycide **capacitors** and NMOS and PMOS threshold voltages of +0.65 V and -0.75 V, respectively...

Descriptors: **audio** equipment...

...operational **amplifiers** ; ...

...switched **capacitor** networks

Identifiers: digital- **audio** sigma-delta modulator...

...fully differential switched- **capacitor** integrators...

... **power supply** noise rejection...

...class A/AB operational **amplifiers** ;

14/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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02977390 INSPEC Abstract Number: B87062862

**Title: A low-voltage analog signal processor LSI for mobile radiotelephone systems**

Author(s): Tanimoto, H.; Hayashibara, M.; Kato, T.

Author Affiliation: Toshiba Corp., Kawasaki, Japan

Conference Title: Proceedings of the IEEE 1987 Custom Integrated Circuits

Conference (Cat. No.87CH2430-7) p.473-6

Publisher: IEEE, New York, NY, USA

Publication Date: 1987 Country of Publication: USA 732 pp.

U.S. Copyright Clearance Center Code: CH2430-7/87/0000-0473\$01.00

Conference Sponsor: IEEE

Conference Date: 4-7 May 1987 Conference Location: Portland, OR, USA

Language: English

Subfile: B

Abstract: An analog signal processor LSI, which meets the requirements of

the **audio** signal processing in most mobile radiotelephone applications, has been developed by the CMOS switched- **capacitor** technique. The analog signal processor LSI described performs the baseband **audio** signal filtering (33 degrees in total), and has an amplitude limiter for FM/PM modulators. The LSI chip includes 56 operational **amplifiers** and operates on 3.5-V to 7-V single **power supply** over a -40 degrees C to +85 degrees C temperature range and draws 4 mA...

...Descriptors: operational **amplifiers** ; ...

...switched **capacitor** networks

...Identifiers: **audio** signal processing...

...CMOS switched- **capacitor** technique...

...baseband **audio** signal filtering...

...operational **amplifiers** ; ...

...single **power supply** ;

14/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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02945634 INSPEC Abstract Number: B87044978, C87047239

**Title: An experimental 16-bit A/D converter for digital audio applications**

Author(s): Dijkmans, E.C.; Naus, P.J.A.

Author Affiliation: Philips Res. Labs., Eindhoven, Netherlands

Conference Title: IEE Colloquium on 'Advanced A/D Conversion Techniques'

(Digest No.48) p.5/1-4

Publisher: IEE, London, UK

Publication Date: 1987 Country of Publication: UK 42 pp.

Conference Sponsor: IEE

Conference Date: 15 April 1987 Conference Location: London, UK

Language: English

Subfile: B C

**Title: An experimental 16-bit A/D converter for digital audio applications**

Abstract: A noise-shaping A/D converter for digital **audio** applications is presented. The converter is based on a sigma-delta modulator with a third order loop filter. The loop filter and D/A converter are implemented in switched **capacitor** MOS technology. The noise contributions of the D/A converter, **amplifiers** and decimating filter are discussed. Measurements show a dynamic range of >94 dB. The converter operates on a single 5 V **power supply**.

...Descriptors: **audio** equipment

...Identifiers: digital **audio** applications...

...switched **capacitor** MOS technology...

...single 5 V **power supply** ;

14/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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02062866 INSPEC Abstract Number: B83033389

**Title: A silent stabilised power supply for hi-fi amplifiers**

Author(s): Schopke, R.

Journal: Das Elektron International no.2-3 p.51

Publication Date: 1983 Country of Publication: Austria

CODEN: EKITA9 ISSN: 0374-3098

Language: German

Subfile: B

**Title: A silent stabilised power supply for hi-fi amplifiers**

**Abstract:** Conventional audio frequency amplifier power supplies give rise to an impulse sound in the loud speaker when switched on due to capacitor inrush currents. A hi-fi amplifier stabilised power supply is described in which the effect is avoided by causing the ultimately stabilised output voltage...

... delay of about 1 second is obtained by using the charging current of an electrolytic capacitor to set the base voltage of a control transistor. Circuit operation is explained and the...

... of relevant resistance calculation are given. The circuit cannot be simply used with factory made amplifier systems as these mostly do not have stabilised power supplies.

Descriptors: audio -frequency amplifiers ; ...

... power supplies to apparatus

Identifiers: audio frequency amplifier power supplies ; ...

...hi-fi amplifier stabilised power supply ; ...

...electrolytic capacitor

14/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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02032049 INSPEC Abstract Number: B83023243

**Title: An 100 W 'Hi-Fi' amplifier**

Author(s): Miguel, B.

Journal: Revista Espanola de Electronica vol.29, no.337 p.30-4

Publication Date: Dec. 1982 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: B

**Title: An 100 W 'Hi-Fi' amplifier**

**Abstract:** The author describes a high quality, inexpensive amplifier for 'Hi-Fi' enthusiasts. Besides blocking the DC component the first input capacitor operates, in conjunction with the input impedance of the circuit, as a high pass filter. A second capacitor and resistor combination limits the amplifier response to high frequency notes. The signal is then amplified by a low gain differential amplifier. After describing the preamplifier driving stage the author deals with the means of regulating the quiescent currents of the final stage transistors, discusses the final stage and describes the power supplies and means of protecting the electronic circuits. Instructions on assembly and setting up are also...

Descriptors: audio -frequency amplifiers ;

Identifiers: capacitor ; ...

...differential amplifier ; ...

... power supplies

14/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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01867331 INSPEC Abstract Number: B82032305

**Title: A stereo preamplifier for an automobile tape recorder**

Author(s): Miguel, B.

Journal: Revista Espanola de Electronica vol.28, no.325 p.22-3

Publication Date: Dec. 1981 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish  
Subfile: B

...Abstract: transistors operating in their common emitter configuration. The modulated signal is applied via a coupling **capacitor** to the first transistor which is so biased as to fix the collector current at...

... direct coupling, the final stage uses a PNP transistor which has variable feedback. A filtering **capacitor** is provided to eliminate the hum imposed on the DC supply by the motor of the tape recorder. After describing the **power supply**, illustrated assembly instructions and a list of components are provided.

Descriptors: **audio** -frequency **amplifiers** ;

...Identifiers: coupling **capacitor** ; ...

...filtering **capacitor** ; ...

... **power supply**

14/3,K/7 (Item 7 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2002 Institution of Electrical Engineers. All rts. reserv.

01820423 INSPEC Abstract Number: A82024499, B82017246

**Title: High voltage generator for Geiger-Muller tubes**

Author(s): Kindt, V.

Journal: Funkschau no.19 p.95-6

Publication Date: 18 Sept. 1981 Country of Publication: West Germany

CODEN: FUSHA2 ISSN: 0016-2841

Language: German

Subfile: A B

Abstract: Circuits of a stable, adjustable generator for 100-700 V, using a 9-12 V **battery** as the primary supply, and of an **audio amplifier** for the counting tube are described. An astable flip-flop running at 2.5 kHz...

... 220 V AC and the final output voltage is produced in a four-stage rectifier- **capacitor** cascade. Geiger-Muller pulses are brought via a RC circuit to the base of a...

...not required, the pulses are applied directly to a counter or integrator to save the **battery**. Do-it-yourself instructions are given.

...Descriptors: **power supply** circuits

Identifiers: AF **amplifier** ; ...

...rectifier- **capacitor** cascade

14/3,K/8 (Item 8 from file: 2)  
DIALOG(R)File 2:INSPEC  
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1777515 INSPEC Abstract Number: B82000746

**Title: The Audio Master-a 30W+ 'bookshelf' HiFi stereo amplifier**

Journal: Radio & Electronics Constructor vol.34, no.12 p.743-50

Publication Date: Aug.-Sept. 1981 Country of Publication: UK

CODEN: RECNCU ISSN: 0374-4361

Language: English

Subfile: B

**Title: The Audio Master-a 30W+ 'bookshelf' HiFi stereo amplifier**

Abstract: Describes a combined stereo preamplifier/30 watt RMS power **amplifier** developed in Denmark by Larsholt Electronics. The power **amplifier** modules are separately powered and fused, with class AB output configuration, using high gain Darlington output devices that require no 'power' driver transistors. An output **capacitor** is employed. For the **power supply**, a low field toroidal mains transformer feeds a conventional bridge rectifier and reservoir **capacitor**. The preamplifier stages are provided with their own regulated rail.

Descriptors: **audio -frequency amplifiers ; ...**

...power **amplifiers ;**  
...Identifiers: stereo power **amplifier ; ...**  
... power **supply ;**

**14/3,K/9 (Item 9 from file: 2)**

DIALOG(R)File 2:INSPEC

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01638443 INSPEC Abstract Number: B81010206

**Title: Head amp design**

Author(s): Sykes, A.

Journal: Electronics Today International vol.9, no.10 p.69-70

Publication Date: Oct. 1980 Country of Publication: UK

CODEN: ETINDN ISSN: 0142-7229

Language: English

Subfile: B

Abstract: Describes the Videotone H300 **amplifier** which is based on a simple parallel transistor pair. A bootstrap **capacitor** is employed to increase the open loop gain and so keep the distortion well below...

... capacitance to allow different cartidges to be centered for. It is powered by a rechargeable **battery** which is put on trickle charge when the head amp is switched off. Output spikes...

Descriptors: **audio -frequency amplifiers ;**

Identifiers: Videotone H300 **amplifier ; ...**

...bootstrap **capacitor ; ...**

...rechargeable **battery ;**

**14/3,K/10 (Item 10 from file: 2)**

DIALOG(R)File 2:INSPEC

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01572464 INSPEC Abstract Number: B80045777

**Title: A stereophonic simulator**

Author(s): Serra, A.

Journal: Revista Espanola de Electronica vol.27, no.306 p.30-4

Publication Date: May 1980 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: B

...Abstract: are supplied to a right hand and the other half to a left hand mixer **amplifier** . As the filters are connected in parallel they have a very low input impedance and...

... circuit with a high input impedance (common collector configuration). The filters are type 741 operational **amplifiers** in conjunction with the appropriate frequency selecting **capacitors** . The mixer **amplifiers** both make use of suitably biased common emitter transistor circuits. The unit can be supplied from a 9 V **battery** or a 12 V rectified **power supply** .

Descriptors: **audio equipment...**

...Identifiers: 741 operational **amplifiers ; ...**

...mixer **amplifiers ; ...**

... **audio equipment**

**14/3,K/11 (Item 11 from file: 2)**

DIALOG(R)File 2:INSPEC

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01542586 INSPEC Abstract Number: B80034188

**Title: MOS switched- capacitor analog sampled-data direct-form recursive filters**

Author(s): Young, I.A.; Hodges, D.A.

Author Affiliation: MOSTEK Corp., Carrollton, TX, USA

Journal: IEEE Journal of Solid-State Circuits vol.SC-14, no.6 p. 1020-33

Publication Date: Dec. 1979 Country of Publication: USA

CODEN: IJSCBC ISSN: 0018-9200

Language: English

Subfile: B

**Title: MOS switched- capacitor analog sampled-data direct-form recursive filters**

Abstract: A new technique enabling the integration of **audio** frequency filters using standard MOS technology is described. This approach uses ratioed MOS **capacitors**, MOS **amplifiers** and switches to realize precision multiplication, summation, and delay functions. With these elements an analog...

... can be used as a building block for higher order filters. The direct form switched- **capacitor** offers some useful advantages in comparison to the switched- **capacitor** integrator approach. These are the rejection of MOS **amplifier** noise and **power supply** noise below one-half the sampling rate, less silicon area especially when implementing high Q...

Identifiers: **audio** frequency filters...

...MOS **capacitors** ; ...

...MOS **amplifiers** ; ...

...switched **capacitor** filter

14/3,K/12 (Item 12 from file: 2)

DIALOG(R)File 2:INSPEC

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01421706 INSPEC Abstract Number: B79046163

**Title: Application and mode of operation of DC-coupled audio amplifiers . II**

Author(s): Karbowski, G.

Author Affiliation: Audio-Entwicklung, Telefunken Fernseh und Rundfunk GmbH, Hannover, West Germany

Journal: Funk-Technik vol.34, no.6 p.T285-9

Publication Date: June 1979 Country of Publication: West Germany

CODEN: FUTEAW ISSN: 0016-2825

Language: German

Subfile: B

**Title: Application and mode of operation of DC-coupled audio amplifiers . II**

...Abstract: see *ibid.*, vol.34, no.5, p.231 (1979). Deals with three basic circuit systems: **capacitor** -coupled loudspeaker with a complementary push-pull stage; direct-coupled speaker in a symmetrically-split supply voltage system; improved stability with the aid of an input differential **amplifier**, usually in an IC. **Power supplies** and protection circuits are also treated.

Descriptors: **audio** -frequency **amplifiers**

Identifiers: differential **amplifier** ; ...

...DC coupled **audio amplifier** ; ...

... **capacitor** coupled loudspeaker...

... **power supply** circuit



14/3,K/13 (Item 13 from file: 2)  
DIALOG(R)File 2:INSPEC  
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01316368 INSPEC Abstract Number: B79014355

**Title: An acoustic box with active filters having small dimensions and high efficiency**

Author(s): Miguel, B.

Journal: Revista Espanola de Electronica vol.25, no.184 p.30-7

Publication Date: July 1978 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: B

Abstract: Describes an acoustic box containing active filters fed from a **power supply** giving positive and negative DC voltages provided by the centre tapped secondary of a transformer via a single diode bridge, the rectified supply being smoothed by two **capacitors** in series and stabilised by two differential **amplifiers**. Each **amplifier** output is fed to a Darlington pair. To avoid impedance matching problems, the filter input is a current **amplifier** comprising an NPN transistor operating as an emitter follower. The middle and high note **amplifiers** are actuated by an input potentiometer which determines both the gain of the subsequent operational **amplifier** and the cut off frequency of its high pass input filter. The **amplifier** output supplies the medium and high note loudspeakers via two Darlington pairs operating in push...

Descriptors: **audio** equipment

...Identifiers: **audio** equipment...

... **power supplies** to apparatus

14/3,K/14 (Item 14 from file: 2)  
DIALOG(R)File 2:INSPEC  
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01303270 INSPEC Abstract Number: B79010084

**Title: Variable-C AF generator. I**

Author(s): Arthur, P.R.

Journal: Radio & Electronics Constructor vol.31, no.12 p.736-40

Publication Date: Aug. 1978 Country of Publication: UK

CODEN: RECNCU ISSN: 0374-4361

Language: English

Subfile: B

...Abstract: kHz to 400 kHz), both sine wave and square wave outputs and long-life variable **capacitor** tuning. The generator is completely self-contained, with power being provided by an internal 9 volt PP6 **battery**. The circuit is very simple and uses only three active devices including two CMOS operational **amplifiers**.

Descriptors: **audio** equipment...

...Identifiers: **audio** frequency generator

14/3,K/15 (Item 15 from file: 2)  
DIALOG(R)File 2:INSPEC  
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01234354 INSPEC Abstract Number: B78039912

**Title: New 2\*350 W class-A+ system to be released by Technics**

Author(s): Williams, N.

Journal: Electronics Australia vol.39, no.9 p.29, 31-2

Publication Date: Dec. 1977 Country of Publication: Australia

CODEN: EAUSAU ISSN: 0313-0150

Language: English

Subfile: B

Abstract: The SE-A1 direct-coupled power **amplifier** from Technics offers a power output of 350 W RMS per channel from a system which is referred to as class A+. Eight distinct **power supply** branches separate the stereo channels and stages within the channels, involving four **capacitors** of 100000 mu F each and another four of 22000 mu F each. Entirely separate thermal servo **amplifiers** stabilise the unit against temperature effects.

Descriptors: **audio -frequency amplifiers ; ...**

...power **amplifiers**

...Identifiers: class A+ **amplifier ; ...**

... **audio frequency amplifier ;**

14/3,K/16 (Item 16 from file: 2)

DIALOG(R)File 2:INSPEC

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01105823 INSPEC Abstract Number: B77038091

**Title: A simple RF test generator**

Journal: Revista Espanola de Electronica vol.24, no.268 p.45

Publication Date: March 1977 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: B

Abstract: Describes a simple test generator depending on the discharge of a **capacitor** through a resistor to produce the characteristic click in a loudspeaker at the output of the **amplifier** under test. The circuit involves a **capacitor** charged from a **battery** via a resistor so that its peak voltage can be determined. By switching the charged **capacitor** over to the **amplifier** input one can obtain the required test voltage by inserting suitable resistors. A second switch permits the test voltage to be applied to either channel of a stereophonic **amplifier**.

Descriptors: **audio -frequency amplifiers ;**

...Identifiers: **capacitor ; ...**

...stereophonic **amplifier**

14/3,K/17 (Item 17 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2002 Institution of Electrical Engineers. All rts. reserv.

01105702 INSPEC Abstract Number: B77037930

**Title: An acoustic alarm operated by touch**

Author(s): Vila, A.

Journal: Revista Espanola de Electronica vol.24, no.268 p.52-4

Publication Date: March 1977 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: B

...Abstract: two contacts to earth. The multivibrator output is supplied to a Darlington pair of transistor **amplifiers** which supply the **audio** signal via a **capacitor** to the IC output **amplifier**. The generator **power supply** should not exceed 10 V. Assembly and test instructions are given including means of eliminating...

...Descriptors: **audio systems**

...Identifiers: IC output **amplifier ;**

14/3,K/18 (Item 18 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2002 Institution of Electrical Engineers. All rts. reserv.

01059299 INSPEC Abstract Number: B77016735, C77014621

**Title: An AF generator with an operational amplifier**

Author(s): Posiello, J.  
Journal: Revista Espanola de Electronica vol.24, no.266 p.48-50  
Publication Date: Jan. 1977 Country of Publication: Spain  
CODEN: RVEEBT ISSN: 0482-6396  
Language: Spanish  
Subfile: B C

**Title: An AF generator with an operational amplifier**

...Abstract: used to control the FET. For frequency control the only precision components required are the **capacitors** although it is of importance that the pairs of resistors for each frequency should be...

... up of the oscillator and the output level. Finally points out the advantages of this **battery** -fed small-dimensioned signal generator as a piece of precision test equipment.

Descriptors: **audio** equipment...

...Identifiers: operational **amplifier** ;

14/3,K/19 (Item 19 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2002 Institution of Electrical Engineers. All rts. reserv.

00806760 INSPEC Abstract Number: B75034627

**Title: PW 'Easybuild' electronic organ. II**

Author(s): Hughes, M.J.

Journal: Practical Wireless vol.50, no.12 p.1104-10

Publication Date: April 1975 Country of Publication: UK

CODEN: PRWIBD ISSN: 0141-0857

Language: English

Subfile: B

Abstract: Describes the design of a simple internal **audio amplifier** circuit. Apart from the keyboard resistors and the **power supply**, all circuitry is housed on one board. This includes all the manual controls and thus greatly simplifies the problems of interconnections. The second board houses the **power supply**, and as with the rest of the organ, it contains only essential components. All smoothing and decoupling **capacitors** are mounted on the main board, with the exception of C29 which serves to provide...

Descriptors: **audio** -frequency **amplifiers** ; ...

... **power supplies** to apparatus

Identifiers: **audio** frequency **amplifier** ; ...

... **power supply** circuits

14/3,K/20 (Item 20 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2002 Institution of Electrical Engineers. All rts. reserv.

00161695 INSPEC Abstract Number: B70027103

**Title: Multiloop negative feedback active filters using thick film integrated circuit technique**

Author(s): Hollenbeck, D.W.

Author Affiliation: Kinetic Technol. Inc., Los Gatos, CA, USA

Conference Title: 1969 Wescon technical papers presented at the western electronic show and convention Part 5 p.5 pp.

Publisher: WESCON, Los Angeles, CA, USA

Publication Date: 1969 Country of Publication: USA 215 pp.

Conference Sponsor: IEEE; WEMA

Conference Date: 19-22 Aug. 1969 Conference Location: San Francisco, CA, USA

Language: English

Subfile: B

...Abstract: This device has been designed to compete successfully with

passive filters in the low-to- **audio** frequency range. In order to manufacture the filter at a cost competitive with that of the passive filter, a special silicon monolithic integrated operational **amplifier** was developed to supply the unique requirements of the hybrid circuitry used. Passive filters require...

...can be quickly offset, especially in multiple-pole-pair applications, by the requirement for massive **power supplies**. Thus, a prime target in the development effort was to end up with an **amplifier** requiring microwatts of supply power. Another prime objective was to combine all **amplifying** functions on one monolithic chip, allowing the entire filter to be built with one die-attach and lead-bond operation (excluding **capacitor** attach). To reduce the number of **capacitor** attaching operations, the chip was designed with all compensating components integral.

14/3,K/21 (Item 21 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2002 Institution of Electrical Engineers. All rts. reserv.

00009118 INSPEC Abstract Number: B69003366

**Title: Stereophonic system**

Assignee(s): Philco-Ford Corp

Patent Number: GB 1119569 Issue Date: 680710

Application Date: 651221

Priority Appl. Number: US 419823 Priority Appl. Date: 641221

Country of Publication: UK

Language: English

Subfile: B

...Abstract: two transistors of which the collector/emitter paths are connected in series across the same **power supply**. Each transistor pair is fed in push pull and in turn feeds a separate load (loudspeaker) which is connected to the supply through a coupling **capacitor** which is common to both channels. The parameters are such that the **capacitor** acts to supply half the voltage appearing at the terminals of the system.

**Amplification** occurs as the current through the load is proportional to, and greater than the input...

Descriptors: **audio** systems

14/3,K/22 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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0234056 NTIS Accession Number: AD-709 271/XAB

**A Modulator as a Customer Designed Silicon Integrated Circuit**

Jones, C. H.

Signals Research and Development Establishment Christchurch (England)

Corp. Source Codes: 323750

Report No.: SRDE-70022; TRC-BR-19612

Mar '70 28p

Journal Announcement: USGRDR7018

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NTIS Prices: PC A03/MF A01

... external components are kept to a minimum with the microphone input fed via a blocking **capacitor** and a further **capacitor** added to reduce the **audio** gain at high frequencies. One external resistor is required to be adjusted on test to set the **audio** d.c. levels applied to the modulator, the range of values required depend on the...

Descriptors: Modulators; \*Integrated circuits; Analog systems; Silicon; **Power supplies**; Transistors; Microphones; **Audio amplifiers**; Great Britain

14/3,K/23 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04954803 E.I. No: EIP98024083846

**Title: Low power, high performance switched- capacitor sigma-delta modulator suitable for battery operated audio signal processing applications**

Author: San, Ho Yoon; Hasan, S.M. Rezaul  
Corporate Source: Universiti Sains Malaysia, Perak, Malays  
Conference Title: Proceedings of the 1996 IEEE Region 10 TENCON - Digital Signal Processing Applications Conference. Part 2 (of 2)  
Conference Location: Perth, Aust Conference Date: 19961126-19961129  
E.I. Conference No.: 47959  
Source: IEEE Region 10 Annual International Conference, Proceedings/TENCON v 2 1996. IEEE, Piscataway, NJ, USA, 96CH36007. p 728-730  
Publication Year: 1996  
CODEN: 85QXAA  
Language: English

**Title: Low power, high performance switched- capacitor sigma-delta modulator suitable for battery operated audio signal processing applications**

Descriptors: Modulators; Operational **amplifiers** ; Digital to analog conversion; Digital signal processing; Computer simulation; Bandwidth  
Identifiers: Sigma delta modulators; **Audio** signal processing

14/3,K/24 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04715370 E.I. No: EIP97063684340

**Title: 1.8-V digital- audio sigma-delta modulator in 0.8- mu m CMOS**

Author: Rabii, Shahriar; Wooley, Bruce A.  
Corporate Source: Stanford Univ, Stanford, CA, USA  
Source: IEEE Journal of Solid-State Circuits v 32 n 6 Jun 1997. p 783-796  
Publication Year: 1997  
CODEN: IJSCBC ISSN: 0018-9200  
Language: English

**Title: 1.8-V digital- audio sigma-delta modulator in 0.8- mu m CMOS**

...Abstract: digital (A/D) converters in a implementation of a CMOS Sigma Delta modulator for digital- **audio** A/D conversion that operates from a single 1.8-V **power supply** . A cascaded modulator that maintains a large full-scale input range while avoiding signal clipping at internal nodes is introduced. The experimental modulator has been designed with fully differential switched- **capacitor** integrators employing different input and output common-mode levels and boosted clock drivers in order to facilitate low voltage operation. Precise control of common-mode levels, high **power supply** noise rejection, and low power dissipation are obtained through the use of two-stage, class A/AB operational **amplifiers** . At a sampling rate of 4 MHz and an oversampling ratio of 80, an implementation of the modulator in a 0.8- mu m CMOS technology with metal-to-polycide **capacitors** and NMOS and PMOS threshold voltages of plus 0.65 V and minus 0.75...

Descriptors: Modulators; CMOS integrated circuits; Analog to digital conversion; Electric **power supplies** to apparatus; Energy dissipation; Operational **amplifiers** ; Delta modulation; Digital integrated circuits; Linear integrated circuits; Integrated circuit layout

Identifiers: Sigma delta modulation; Switched **capacitor** circuits; Sampled data circuits; Mixed analog digital integrated circuits

14/3,K/25 (Item 3 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04392789 E.I. No: EIP96043152768

**Title: 1.8V, 5.4mW, digital- audio Sigma Delta modulator in 1.2 mu m CMOS**

Author: Rabii, Shahriar; Wooley, Bruce A.

Corporate Source: Stanford Univ, Stanford, CA, USA

Conference Title: Proceedings of the 1996 IEEE International Solid-State Circuits Conference

Conference Location: San Francisco, CA, USA Conference Date: 19960208-19960210

E.I. Conference No.: 44592

Source: Digest of Technical Papers - IEEE International Solid-State Circuits Conference v 39 Febr 1996. IEEE, Piscataway, NJ, USA, 96CH35889. p 228-229

Publication Year: 1996

CODEN: DTPCDE ISSN: 0193-6530

Language: English

**Title: 1.8V, 5.4mW, digital- audio Sigma Delta modulator in 1.2 mu m CMOS**

Abstract: An experimental switched- **capacitor** sigma-delta modulator is presented that achieves 92b dynamic range for a signal bandwidth of... ..1.8V supply. The supply voltage is consistent with the end-of-life of two **battery** cells in series. The fully differential circuit has been integrated in a 5V, 1.2 mu m CMOS technology with poly-n\*\* plus **capacitors** . 1 Refs.

Descriptors: Modulators; CMOS integrated circuits; Bandwidth; Electric **power supplies** to apparatus; Step response; **Capacitors** ; Signal to noise ratio; Operational **amplifiers** ; MOSFET devices; Flip flop circuits

Identifiers: Digital **audio** modulator; Threshold voltage

14/3,K/26 (Item 4 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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03966749 E.I. No: EIP94111436621

**Title: 1V power supply , 384ks/s 10b A/D and D/A converts with swing-suppression noise shaping**

Author: Matsuya, Yasujuki; Yamada, Junzo

Corporate Source: NTT LSI Lab, Kanagawa, Jpn

Conference Title: Proceedings of the 1994 IEEE International Solid-State Circuits Conference

Conference Location: San Francisco, CA, USA Conference Date: 19940216-19940218

E.I. Conference No.: 20737

Source: Digest of Technical Papers - IEEE International Solid-State Circuits Conference 1994. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA. p 192-193

Publication Year: 1994

CODEN: DTPCDE ISBN: 0-7803-1845-5

Language: English

**Title: 1V power supply , 384ks/s 10b A/D and D/A converts with swing-suppression noise shaping**

Abstract: Noise-shaping A/D and D/A converts employing the switched- **capacitor** circuit are widely used for communication and **audio** LSIs because they provide high accuracy. However, accuracy diminishes with 1V supply for two reasons: narrowing of the **amplifier** active range and bandwidth, and poor analog switching. The active range and bandwidth of a CMOS **amplifier** , which are proportional to Vdd, become too narrow. This over-loads the integrator, resulting in...

...shaping technique permits A/D and D/A converts to operate on a one-cell **battery** at low power. The A/D and D/A converters for the DCP operate on...

Descriptors: Analog to digital conversion; Digital to analog conversion; Electric **power supplies** to apparatus; CMOS integrated circuits; Signal to noise ratio; Performance; Solid state devices

14/3,K/27 (Item 5 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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02679322 E.I. Monthly No: EIM8811-059655

**Title: EXPERIMENTAL 16-BIT A/D CONVERTER FOR DIGITAL AUDIO APPLICATIONS.**

Author: Dijkmans, E. C.; Naus, P. J. A.  
Corporate Source: Philips Research Lab, Eindhoven, Neth  
Conference Title: Colloquium on Advanced A/D Conversion Techniques.  
Conference Location: London, Engl Conference Date: 19870415  
E.I. Conference No.: 11361  
Source: IEE Colloquium (Digest) n 1987/48. Publ by IEE, London, Engl p 5.  
1-5. 4  
Publication Year: 1987  
CODEN: DCILDN  
Language: English

**Title: EXPERIMENTAL 16-BIT A/D CONVERTER FOR DIGITAL AUDIO APPLICATIONS.**

Abstract: A noise-shaping A/D converter for digital **audio** applications is presented. The converter is based on a sigma-delta modulator with a third order loop filter. The loop filter and D/A converter are implemented in switched **capacitor** MOS technology. The noise contributions of the D/A converter, **amplifiers** and decimating filter are discussed. Measurements show a dynamic range of greater than 94 dB. The converter operates on a single 5 V **power supply**. (Author abstract) 4 refs.

...Descriptors: Applications; **AUDIO** SYSTEMS...

Identifiers: NOISE-SHAPING A/D CONVERTER; SIGMA-DELTA MODULATOR; THIRD ORDER LOOP FILTER; DECIMATING FILTER; DIGITAL **AUDIO** A/D CONVERTER

14/3,K/28 (Item 6 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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02272096 E.I. Monthly No: EIM8709-059770

**Title: LOW-VOLTAGE ANALOG SIGNAL PROCESSOR LSI FOR MOBILE RADIOTELEPHONE SYSTEMS.**

Author: Tanimoto, Hiroshi; Hayashibara, Mikio; Kato, Tadamichi  
Corporate Source: Toshiba Corp, Kawasaki, Jpn  
Conference Title: Proceedings of the IEEE 1987 Custom Integrated Circuits Conference.  
Conference Location: Portland, OR, USA Conference Date: 19870504  
E.I. Conference No.: 10045  
Source: Proceedings of the Custom Integrated Circuits Conference 1987.  
Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 87CH2430-7), Piscataway, NJ, USA p 473-476  
Publication Year: 1987  
CODEN: PCICER ISSN: 0886-5930  
Language: English

Abstract: An analog signal processor LSI, which meets the requirements of the **audio** signal processing in most mobile radiotelephone applications, has been developed by the CMOS switched- **capacitor** technique. The analog signal processor LSI described performs the baseband **audio** signal filtering (33 degrees in total), and has an amplitude limiter for FM/PM modulators. The LSI chip includes 56 operational **amplifiers** and operates on 3. 5-V to 7-V single **power supply** over a -40 DEGREE C to PLUS 85 DEGREE C temperature range and draws 4...

Identifiers: LOW-VOLTAGE ANALOG SIGNAL PROCESSOR; MOBILE RADIOTELEPHONE; CMOS SWITCHED- **CAPACITOR** TECHNIQUE; BASEBAND **AUDIO** SIGNAL FILTERING

14/3,K/29 (Item 7 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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00930758 E.I. Monthly No: EI8007051428 E.I. Yearly No: EI80026350

**Title: MOS SWITCHED- CAPACITOR ANALOG SAMPLED-DATA DIRECT-FORM RECURSIVE FILTERS.**

Author: Young, Ian A.; Hodges, David A.

Corporate Source: Mostek Corp, Carrollton, Tex

Source: IEEE Journal of Solid-State Circuits v SC-14 n 6 Dec 1979 p 1020-1033

Publication Year: 1979

CODEN: IJSCBC ISSN: 0018-9200

Language: ENGLISH

**Title: MOS SWITCHED- CAPACITOR ANALOG SAMPLED-DATA DIRECT-FORM RECURSIVE FILTERS.**

Abstract: A new technique enabling the integration of **audio** frequency filters using standard MOS technology is described. This approach uses ratioed MOS **capacitors**, MOS **amplifiers**, and switches to realize precision multiplication, summation, and delay functions. With these, an analog sampled...

...can be used as a building block for higher order filters. The direct-form switched- **capacitor** offers advantages in comparison to the switched- **capacitor** integrator approach. These are the rejection of MOS **amplifier** noise and **power supply** noise below one-half the sampling rate, less silicon area especially when implementing high Q...

Identifiers: RECURSIVE FILTERS; SAMPLED-DATA FILTERS; MOS SWITCHED-CAPACITOR FILTERS

14/3,K/30 (Item 8 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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00226705 E.I. Monthly No: EI72X032109

**Title: Audio engineer's handbook.**

Author: ALEXANDROVICH, G.

Source: db, Sound Engineering Magazine v 5 n 6 June 1971 p 4, 6

Publication Year: 1971

CODEN: DBSEA

Language: ENGLISH

**Title: Audio engineer's handbook.**

...Abstract: circuit. Two methods are discussed how a bipolar supply can eliminate the need for a **capacitor** in the output stage of a simple class A **amplifier**. Integrated circuits designed to work off bipolar **power supplies** are designed so that when the input is a resistor terminated to ground, the base...

...This in turn eliminates the need for external biasing circuits and input decoupling or isolation **capacitors**.

Descriptors: **AMPLIFIERS** --\*...

...Integrated Circuits; **AMPLIFIERS** --...

...Class A; **AMPLIFIERS** --

14/3,K/31 (Item 9 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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00209864 E.I. Monthly No: EI72X015565

**Title: The audio engineer's handbook.**

Author: ALEXANDROVICH, G.

Source: db, Sound Engineering Magazine v 5 n 1 Jan 1971 p 4, 6, 8

Publication Year: 1971

CODEN: DBSEA

Language: ENGLISH

**Title: The audio engineer's handbook.**



...Abstract: operational amplifier circuit (UA741) including explanation of specified parameters expressed in terms generally not used in **audio** is reviewed. The circuit of the **amplifier** consist of basic elements transistors and resistors. When driven from a bipolar **power supply** it requires no decoupling **capacitors** . Consequently it is a d- c. **amplifier** as well as an excellent **audio amplifier** . Its distinguishing features are two differential inputs, directly- coupled stages, high open- loop gain (over...

Descriptors: **AMPLIFIERS** --\*...

...Operational; **AMPLIFIERS** --

14/3,K/32 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2002 Inst for Sci Info. All rts. reserv.

08908261 Genuine Article#: 343TE No. References: 18

**Title: A multibit delta-sigma audio DAC with 120-dB dynamic range**

Author(s): Fujimori I (REPRINT) ; Nogi A; Sugimoto T

Corporate Source: NEWPORT COMMUN,/IRVINE//CA/92618 (REPRINT); AKM

SEMICON, /SAN DIEGO//CA/92131

Journal: IEEE JOURNAL OF SOLID-STATE CIRCUITS, 2000, V35, N8 (AUG), P 1066-1073

ISSN: 0018-9200 Publication date: 20000800

Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: A multibit delta-sigma audio DAC with 120-dB dynamic range**

...Abstract: dynamic range in the 20-kHz band, and consumes 310 mW with a 5-V **power supply** . A third-order five-bit Delta Sigma architecture optimized for high-end consumer **audio** has been developed and used. A switched- **capacitor** (SC) DAC combined with infinite-impulse response (IIR) and finite-impulse response (FIR) filters is...

...0.5- $\mu$ m CMOS integrates a stereo DAC and all functions required for DVD- **audio** playback.

14/3,K/33 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05835535 Genuine Article#: XA686 No. References: 22

**Title: A 1.8-V digital- audio sigma-delta modulator in 0.8- $\mu$ m CMOS**

Author(s): Rabii S (REPRINT) ; Wooley BA

Corporate Source: STANFORD UNIV,CTR INTEGRATED SYST/STANFORD//CA/94305 (REPRINT)

Journal: IEEE JOURNAL OF SOLID-STATE CIRCUITS, 1997, V32, N6 (JUN), P 783-796

ISSN: 0018-9200 Publication date: 19970600

Publisher: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 345 E 47TH ST, NEW YORK, NY 10017-2394

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: A 1.8-V digital- audio sigma-delta modulator in 0.8- $\mu$ m CMOS**

...Abstract: This paper examines the design and implementation of a CMOS Sigma Delta modulator for digital- **audio** A/D conversion that operates from a single 1.8-V **power supply** , A cascaded modulator that maintains a large full-scale input range while avoiding signal clipping at internal nodes is introduced, The experimental modulator has been designed with fully differential switched- **capacitor** integrators employing different input and output common-mode levels and boosted clock drivers in order to facilitate low voltage operation, Precise control of common-mode levels, high **power supply** noise rejection, and low power dissipation are obtained through the use of two-stage, class A/AB operational **amplifiers** , At a sampling rate of 4 MHz and an

oversampling ratio of 80, an implementation of the modulator in a 0.8- $\mu$  m CMOS technology with metal-to-polycide **capacitors** and NMOS and PMOS threshold voltages of +0.65 V and -0.75 V, respectively...

14/3,K/34 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2002 Inst for Sci Info. All rts. reserv.

02473880 Genuine Article#: LD700 No. References: 9

**Title: A CMOS ANALOG-DIGITAL AUDIO PROCESSOR FOR A PORTABLE  
RADIOTELEPHONE**

Author(s): GUILHERME J; MARTINS FP; VITAL JC; FRANCA JE

Corporate Source: INST SUPER TECN, DEPT ELECT & COMP ENGN, INTEGRATED  
CIRCUITS & SYST GRP/P-1096 LISBON//PORTUGAL//; DEPOSITO GERAL MAT  
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Journal: IEEE JOURNAL OF SOLID-STATE CIRCUITS, 1993, V28, N5 (MAY), P  
560-568

ISSN: 0018-9200

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: A CMOS ANALOG-DIGITAL AUDIO PROCESSOR FOR A PORTABLE  
RADIOTELEPHONE**

Abstract: This paper describes a mixed analog-digital integrated circuit specifically designed to realize the **audio** processing functions needed for a portable radiotelephone (PRT) application. Multirate signal processing techniques are used...

...silicon area of the chip, as well as to minimize the settling requirements of the **amplifiers** for lower power consumption. This, together with a programmable power-saving control circuitry also incorporated on-chip, considerably extends the lifetime of the **battery**. A semi-custom design methodology is employed to implement such an application-specific integrated circuit...

Research Fronts: 91-0631 001 (INTEGRATED LADDER FILTER DESIGN; CMOS VLSI; SWITCHED **CAPACITOR** CIRCUIT SYNTHESIS USING VOLTAGE INVERSION PRINCIPLES)

14/3,K/35 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04084900 JICST ACCESSION NUMBER: 99A0250669 FILE SEGMENT: JICST-E

**Prototype low-feedback single stereophonic amplifier using PX-25A.**

TAKESUE KAZUMA (1)

Rajio Gijutsu, 1999, VOL.53, NO.3, PAGE.9-16, FIG.18

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85 621.375

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Prototype low-feedback single stereophonic amplifier using PX-25A.**

ABSTRACT: Since the distortion rate, damping factor, and gain of L or R of non-feedback **amplifiers** are dependent on characteristics of tubes, some feedback is necessary. As noise voltage measures, an earth...

...PHI. annealed copper single wire to 2.6mm. PHI. one, while as ripple measures, a B **power supply**, filament of output tubes, and preceding heater circuit were improved based on preliminary experiment results. As the preliminary experiment for a rectifier **power supply**, the following are presented: the ripple control circuit for a B power supply of nearly 450V using transistor 1298, a measurement method of ripple voltage by cutting off DC with an oil-filled **capacitor**, and a filament and heater circuit with a transistor ripple filter. The design of a PX-25A single **amplification** circuit and a body is

described. The input voltage-output characteristics, output-noise distortion rate one, and frequency one of the prototype **amplifier** at 0dB and 7.05dB in NFB are illustrated.

DESCRIPTORS: **audio** equipment...

...speech **amplifier** ; ...

...power **amplifier** (electric...

...feedback **amplifier**

...BROADER DESCRIPTORS: low frequency **amplifier** ; ...

... **amplifier** ;

14/3,K/36 (Item 2 from file: 94)

DIALOG(R) File 94:JICST-EPlus

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04084260 JICST ACCESSION NUMBER: 99A0215293 FILE SEGMENT: JICST-E

**Experimental design lecture of transistor amplifiers .**

**Practical technology. Chapter 8. Design of stabilized power - supply**

**. 2.**

KURODA TOORU (1)

Rajio Gijutsu, 1999, VOL.53,NO.2, PAGE.143-146, FIG.12, TBL.3, REF.1

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.311.6 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Experimental design lecture of transistor amplifiers .**

**Practical technology. Chapter 8. Design of stabilized power - supply**

**. 2.**

ABSTRACT: This paper describes the design technique of an emitter follower type stabilized **power - supply** based on combination of Zener diode and emitter follower. Calculation techniques of output voltage, a temperature...

...of bleeder current by inserting resistance between emitter and GND, and a use technique of load **capacitor** are also described. The relation between load capacitance and output impedance is showed by SPICE simulation of frequency characteristics, and it is pointed out that a **capacitor** with a small equivalent serial resistance is necessary to eliminate resonant peaks. A technique calculating parasitic inductance from...

DESCRIPTORS: speech **amplifier** ; ...

... **audio** equipment

BROADER DESCRIPTORS: low frequency **amplifier** ; ...

... **amplifier** ;

14/3,K/37 (Item 3 from file: 94)

DIALOG(R) File 94:JICST-EPlus

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03939469 JICST ACCESSION NUMBER: 98A0888763 FILE SEGMENT: JICST-E

**TR stereo power amplifier kit. Design.**

KAWANISHI TETSUO (1)

Rajio Gijutsu, 1998, VOL.52,NO.10, PAGE.19-27, FIG.15

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**TR stereo power amplifier kit. Design.**

**ABSTRACT:** This paper explains that the strain of the **audio** signal is generated by high-frequency modulation mechanism formed by the negative resistance of input/output impedance. The three-stage feedback **amplifier** circuit which removes the negative resistance of output impedance by combining a high frequency compensating...

...of negative resistance, it is important to use the emitter follower only for the power **amplifier** and stabilized power source. In addition, this paper describes the effect of circuit components such as chemical-**capacitor**, film condenser, resistance, transistor, and wire rod on tone quality. The circuit structure of two stage differential power **amplifier** which conducted the high pass compensation and the low-voltage **power supply** circuit are described. And this paper explained that the NF **amplifier** tone quality is improved only in high pass compensation.

**DESCRIPTORS:** **audio** equipment...

...speech **amplifier** ; ...

...power **amplifier** (electric...

...feedback **amplifier** ;

...BROADER DESCRIPTORS: low frequency **amplifier** ; ...

... **amplifier** ;

14/3,K/38 (Item 4 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02764687 JICST ACCESSION NUMBER: 96A0099938 FILE SEGMENT: JICST-E

"Project T-1" of Marantz was completed in this way.

ATARASHI TADAATSU (1)

Rajio Gijutsu, 1996, VOL.50,NO.1, PAGE.184-187, FIG.8

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**ABSTRACT:** This paper explains the power **amplifier** "Project T-1" which pursued the performance of a vacuum tube as an **amplifying** element to the limit. To employs business use components even for vacuum tubes, transformers, **capacitors**, resistors and sockets. The output triode 845 was adopted for an output tube, which was developed for an **audio** system by RCA in the early 1930's. The circuit adopts push-pull composition through all stages, transformer coupling being adopted between stages, and **power supply** for four tubes in the front stage is supplied by 5U4G, and that for 845 in...

**DESCRIPTORS:** **audio** equipment...

...power **amplifier** (electric...

...speech **amplifier** ; ...

...push-pull **amplifier** ;

...BROADER DESCRIPTORS: **amplifier** ; ...

...low frequency **amplifier** ;

14/3,K/39 (Item 5 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02051422 JICST ACCESSION NUMBER: 94A0542419 FILE SEGMENT: JICST-E

**Special Issue on Audio . Technics G Series Separate Amplifier**

**Technologies.**

JIKO HIDEYASU (1)

(1) Matsushita Electr. Ind. Co., Ltd.

Natl Tech Rep, 1994, VOL.40, NO.3, PAGE.332-338, FIG.11, TBL.1, REF.3

JOURNAL NUMBER: G0474AAH ISSN NO: 0028-0291 CODEN: NTROA

UNIVERSAL DECIMAL CLASSIFICATION: 621.375 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

**Special Issue on Audio . Technics G Series Separate Amplifier**

**Technologies.**

ABSTRACT: The sound quality of an **amplifier** depends not only on the circuit but also on the circuit components and their supporting structure. The "G series" **amplifier** has been developed by our accumulated technologies of circuits, components and structural design. For the power **amplifier**, unique "MOS class AA" circuitry has been developed which combines the excellent linearity of the...  
...operation with the bipolar-TR driving capability. For the components, newly developed "MASTER Series" electrolytic **capacitors** are employed, where not only the Al foil and electrolyte have been improved, but also  
...

...layer Al case has been employed to secure the vibration-proof property. For the control **amplifier**, zinc **batteries** are used as the **power supply** free of noise from the power line. For the components, a unique variable resistor of...

DESCRIPTORS: **audio** equipment...

...speech **amplifier** ; ...

...power **amplifier** (electric...

...lead-acid **battery** ;

...BROADER DESCRIPTORS: low frequency **amplifier** ; ...

... **amplifier** ; ...

...secondary **battery** ; ...

... **battery** ;

14/3,K/40 (Item 6 from file: 94)

DIALOG(R) File 94:JICST-Eplus

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01788535 JICST ACCESSION NUMBER: 93A0245883 FILE SEGMENT: JICST-E

**Present sound reproducing technique is totally reexamined.5.Problems for amplifier designers. Amplifier section v inquiring manufacturers.1.**

KATO KUNIHIRO (1); FUJIWARA NOBUO (2); KURIYAMA YUKIO (3); FUJIWARA MASAMI (4)

(1) Nihonmarantsu; (2) Victor Co. of Japan, Ltd.; (3) Sony Corp.; (4) Nippon Columbia Co., Ltd.

Rajio Gijutsu, 1993, VOL.47, NO.3, PAGE.9-24, FIG.27

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Present sound reproducing technique is totally reexamined.5.Problems for amplifier designers. Amplifier section v inquiring manufacturers.1.**

DESCRIPTORS: **audio equipment...**

**...speech amplifier ; ...**

**... audio component...**

**...secondary battery**

**...BROADER DESCRIPTORS: low frequency amplifier ; ...**

**... amplifier ; ...**

**...condenser( capacitor ); ...**

**... battery**

**14/3,K/41 (Item 7 from file: 94)**

DIALOG(R)File 94:JICST-EPlus

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01751852 JICST ACCESSION NUMBER: 93A0229722 FILE SEGMENT: JICST-E  
**Special issue : New technology displayed in the 41th audio fair. Latest  
technological trends ( element and parts, circuit technique ) of  
audio amplifiers and characteristics of battery drive  
preamplifiers.**

WATARI NORIICHIRO (1)

(1) Matsushita Electric Industrial Co., Ltd.

JAS J(Jpn Audio Soc), 1993, VOL.33,NO.2, PAGE.11-17, FIG.12

JOURNAL NUMBER: L0967AAF ISSN NO: 0388-158X

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Special issue : New technology displayed in the 41th audio fair. Latest  
technological trends ( element and parts, circuit technique ) of  
audio amplifiers and characteristics of battery drive  
preamplifiers.**

DESCRIPTORS: **audio equipment...**

**...speech amplifier ; ...**

**...secondary battery ; ...**

**...power amplifier (electric**

**...BROADER DESCRIPTORS: low frequency amplifier ; ...**

**... amplifier ; ...**

**... battery ; ...**

**...condenser( capacitor )**

**14/3,K/42 (Item 8 from file: 94)**

DIALOG(R)File 94:JICST-EPlus

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01736819 JICST ACCESSION NUMBER: 93A0039629 FILE SEGMENT: JICST-E  
**Design philosophy and features of a battery-powered pre amplifier at  
Technics SU-C7000.**

WATARI KIICHIRO (1)

(1) Matsushitadenkisangyo

Rajio Gijutsu, 1992, VOL.46,NO.17, PAGE.176-181, FIG.13

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85 621.375

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

**Design philosophy and features of a battery -powered pre amplifier at  
Technics SU-C7000.**

DESCRIPTORS: **audio** equipment...

...speech **amplifier** ; ...

...secondary **battery** ; ...

... **audio** component

...BROADER DESCRIPTORS: low frequency **amplifier** ; ...

... **amplifier** ; ...

... **battery** ; ...

...condenser( **capacitor** );

**14/3,K/43 (Item 1 from file: 95)**

DIALOG(R)File 95:TEME-Technology & Management

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01118600 E97070454228

**A 1.8-V digital- audio sigma-delta modulator in 0.8 micron CMOS**

Rabii, S; Wooley, BA

Stanford Univ., USA

IEEE Journal of Solid-State Circuits, v32, n6, pp783-796, 1997

Document type: journal article Language: English

Record type: Abstract

ISSN: 0018-9200

**A 1.8-V digital- audio sigma-delta modulator in 0.8 micron CMOS**

ABSTRACT:

...This paper examines the design and implementation of a CMOS sigma-delta modulator for digital- **audio** A/D conversion that operates from 1.8-V **power supply** . A cascaded modulator that maintains a large full-scale input range while avoiding signal clipping at internal nodes is introduced. The experimental modulator has been designed with fully differential switched- **capacitor** integrators employing different input and output common-mode levels and boosted clock drivers in order to facilitate low voltage operation. Precise control of common-mode levels, high **power supply** noise rejection, and low power dissipation are obtained through the use of two-stage, class A/AB operational **amplifiers** . At a sampling rate of 4 MHz and an oversampling ratio of 80, an implementation of the modulator in a 0.8 micron CMOS technology with metal-to-polycide **capacitors** and NMOS and PMOS threshold voltages of plus 0.65 V and minus 0.75...

DESCRIPTORS: ANALOGUE DIGITAL CONVERSION; CMOS CIRCUITS; LINEAR INTEGRATED CIRCUITS; COMPUTING **AMPLIFIER** ; SAMPLING FREQUENCY; FREQUENCY CONVERSION

...

**14/3,K/44 (Item 2 from file: 95)**

DIALOG(R)File 95:TEME-Technology & Management

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01077196 E97021532009

**Micro power 13-bit RSD A/D converter**

(13-Bit-RSD-A/D-Umsetzer mit Mikroleistungsaufnahme)

Grisoni, L; Heubi, A; Balsiger, P; Pellandini, F

Univ. of Neuchatel, CH

ICSPAT, 7th Internat. Conf. on Signal Processing Applications & Technol., Proc., Vol.1, Boston, USA, Oct 7-10, 1996/1996

Document type: Conference paper Language: English

Record type: Abstract

ABSTRACT:

Micro power converters are required for power sensitive, **battery** -operated devices. Keeping this goal in mind IMT developed a 13-bit RSD cyclic converter. However, inaccuracies ( **capacitor** mismatch, operation **amplifier** ...) resulted in a relative precision behaviour. The implementation of a correction algorithm in a 2...

...DESCRIPTORS: POWER; ERROR CORRECTION; ALGORITHM; CMOS PROCESS; MODEL SIMULATION; COMPUTERISED SIGNAL PROCESSING; MISMATCH; IMPLEMENTATION; SAMPLING FREQUENCY; **AUDIO** SIGNALS; DENOISING

14/3,K/45 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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2156403 H.W. WILSON RECORD NUMBER: BAST00039781

**30W class-A power follower**

Ciuffoli, Andrea;

Electronics World v. 106 no1769 (May 2000) p. 382-3

DOCUMENT TYPE: Feature Article ISSN: 0959-8332

ABSTRACT: A Class-A source follower featuring a small **power supply capacitor** and a negative **power supply** is presented. This set-up does not have very high current peaks in the diodes unlike most Class-A power **amplifiers** .

DESCRIPTORS: Power **audio amplifiers** --;

14/3,K/46 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1503671 H.W. WILSON RECORD NUMBER: BAST97019665

**Single capacitor powers audio mixer**

Belousov, Aleksandr;

EDN v. 42 (Mar. 14 '97) p. 80+

DOCUMENT TYPE: Feature Article ISSN: 0012-7515

**Single capacitor powers audio mixer** .

ABSTRACT: An analog mixer designed for **audio** editing that can be connected between a camcorder and a VCR is presented. The mixer is powered by a single **capacitor** and is based on a rail-to-rail, low-voltage, micropower quad LMC6574 operational **amplifier** . The advantages of using a **capacitor** as a voltage supply instead of regular disposable or rechargeable **batteries** are discussed, and a schematic of the circuit is provided.

DESCRIPTORS: ...Electric **capacitors** ;

14/3,K/47 (Item 3 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2002 The HW Wilson Co. All rts. reserv.

1352536 H.W. WILSON RECORD NUMBER: BAST96038245

**Capacitor amplifier reduces ripple without dc loss**

Kanner, Martin;

EDN v. 41 (June 6 '96) p. 137-8+

DOCUMENT TYPE: Feature Article ISSN: 0012-7515

**Capacitor amplifier reduces ripple without dc loss**

ABSTRACT: Although filtering out **power - supply** ripple ordinarily necessitates large **capacitors** , an active circuit is able to enhance the effectiveness of small **capacitors** as ripple filters. Originally, the active circuits that were effectively used to reduce **capacitor** size were



not dc-efficient. The proposed active circuit solves the problem by reducing ripple...

...2-terminal device that is a direct replacement for a large, high-value, 2-terminal **capacitor**. The resulting circuit is applicable in high-frequency switching **power supplies**. The Kanner Kap design can supply the energy storage that is needed for small **capacitor** usage to handle load perturbations or **audio** susceptibility.

DESCRIPTORS: Electric **capacitors**; ...

...Power **amplifiers** --;

14/3,K/48 (Item 4 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1159648 H.W. WILSON RECORD NUMBER: BAST94028233

**Under the hood; solid state devices**

Bergeron, Bryan;

QST v. 78 (May '94) p. 46-8

DOCUMENT TYPE: Feature Article ISSN: 0033-4812

ABSTRACT: Affordable, ultracompact, **battery** operated, lightweight, and rugged communications units would not be possible without semiconductor diodes, transistors, integrated...

...simplest and most common solid-state devices. They are used as signal and power switches, **power supply** gates, voltage references, **capacitors**, clippers and clamps, frequency multipliers, and rectifiers of ac-to-dc **power supplies**. Transistors are used in applications that range from **audio** - and radio-frequency **amplifiers** and oscillators to frequency converters, mixers, and high-speed switches. Integrated circuits, which often contain...

14/3,K/49 (Item 5 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1141907 H.W. WILSON RECORD NUMBER: BAST94010455

**A 10-b 20-MHz 30-mW pipelined interpolating CMOS ADC**

Kusumoto, Keiichi; Matsuzawa, Akira; Murata, Kenji

IEEE Journal of Solid-State Circuits v. 28 (Dec. '93) p. 1200-6

DOCUMENT TYPE: Feature Article ISSN: 0018-9200

...ABSTRACT: mW pipelined interpolating CMOS analog-to-digital converter (ADC). This converter is suitable for portable **audio** -visual equipment. The ADC, which is of dimensions 2.6 mm [times] 2.5 mm...

...fabricated using 0.8-mm CMOS technology. To realize 10-b accuracy without an operational **amplifier**, 2 new circuit techniques are developed: pipelined capacitive interpolation and error averaging circuits with **capacitor** networks. These techniques resulted in a very low power dissipation of 30 mW, at a low **power - supply** voltage of 2.5 V, being obtained at the conversion frequency of 20 MHz. A...

14/3,K/50 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
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14740858 PASCAL No.: 00-0417962

**Multibit delta-sigma audio DAC with 120-dB dynamic range**

FUJIMORI I; NOGI A; SUGIMOTO T

NewPort Communications, Irvine CA, United States

Journal: IEEE Journal of Solid-State Circuits, 2000, 35 (8) 1066-1073

Language: English

**Multibit delta-sigma audio DAC with 120-dB dynamic range**  
...dynamic range in the 20-kHz band, and consumes 310 mW with a 5-V **power supply**. A third-order five-bit DELTA SIGMA architecture optimized for high-end consumer **audio** has been developed and used. A switched-**capacitor** (SC) DAC combined with infinite-impulse response (IIR) and finite-impulse response (FIR) filters is...

... 0.5-  $\mu$  m CMOS integrates a stereo DAC and all functions required for DVD- **audio** playback.

English Descriptors: Dynamic range; Switched **capacitor** circuits; Dynamic element matching; Theory; Delta sigma modulation; Electric **power supplies** to apparatus; Switching networks; **Capacitors**; IIR filters; FIR filters; CMOS integrated circuits; Operational **amplifiers**; Digital to analog conversion

...French Descriptors: appareil; Réseau commutation; Condensateur; Filtre reponse impulsion infinie; Filtre reponse impulsion finie; Circuit integre CMOS; **Amplificateur** operationnel; Conversion numerique analogique

14/3,K/51 (Item 2 from file: 144)  
DIALOG(R)File 144:Pascal  
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13070145 PASCAL No.: 97-0360979  
**External unit for a semi-implantable middle ear hearing device**  
GARVERICK S L; KANE M; KO W H; MANIGLIA A J  
Case Western Reserve University School of Engineering, Cleveland, Ohio, United States; Case Western Reserve University School of Medicine, University Hospitals of Cleveland, Cleveland, Ohio, United States  
International Symposium on Electronics Implants in Otology and Conventional Hearing Aids, 2 (Goeteborg SWE) 1996-06-03  
Journal: Ear, nose & throat journal, 1997, 76 (6) 397-401  
Language: English

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... internal unit. The external unit is based on a commercial hearing aid which provides proven **audio amplification** and compression. Its receiver is replaced by an application-specific integrated circuit (ASIC) which: 1) adjusts the direct-current bias of the **audio** input according to its peak value; 2) converts the **audio** signal to a one-bit digital form using SIGMA - DELTA modulation; 3) modulates the SIGMA...

... with a radio-frequency (RF) oscillator; and 4) drives the external RF coil and tuning **capacitor** using a field-effect transistor operated in class D. The external unit functions as expected and...

... the SIMEHD. Measured current consumption is 1.65 - 2.15 mA, which projects to a **battery** lifetime of about 15 days. Bandwidth is 6 kHz and harmonic distortion is about 2%.

14/3,K/52 (Item 3 from file: 144)  
DIALOG(R)File 144:Pascal  
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13026546 PASCAL No.: 97-0312046  
**1.8-V digital- audio sigma-delta modulator in 0.8-  $\mu$  m CMOS**  
RABII S; WOOLEY B A  
Stanford Univ, Stanford CA, United States  
Journal: IEEE Journal of Solid-State Circuits, 1997, 32 (6) 783-796  
Language: English

**1.8-V digital- audio sigma-delta modulator in 0.8-  $\mu$  m CMOS**

... digital (A/D) converters in a implementation of a CMOS &Sgr;&Dgr; modulator for digital- **audio** A/D conversion that operates from a single 1.8-V **power supply** . A cascaded modulator that maintains a large full-scale input range while avoiding signal clipping at internal nodes is introduced. The experimental modulator has been designed with fully differential switched- **capacitor** integrators employing different input and output common-mode levels and boosted clock drivers in order to facilitate low voltage operation. Precise control of common-mode levels, high **power supply** noise rejection, and low power dissipation are obtained through the use of two-stage, class A/AB operational **amplifiers** . At a sampling rate of 4 MHz and an oversampling ratio of 80, an implementation of the modulator in a 0.8-  $\mu$  m CMOS technology with metal-to-polycide **capacitors** and NMOS and PMOS threshold voltages of  $\pm 0.65$  V and  $-0.75$  V...

English Descriptors: Sigma delta modulation; Switched **capacitor** circuits; Sampled data circuits; Mixed analog digital integrated circuits; Application; CMOS integrated circuits; Analog to digital conversion; Electric **power supplies** to apparatus; Energy dissipation; Operational **amplifiers** ; Delta modulation; Digital integrated circuits; Linear integrated circuits; Integrated circuit layout; Modulators

French Descriptors: Application; Circuit integre CMOS; Conversion analogique numerique; Alimentation electrique appareil; Dissipation energie; **Amplificateur** operationnel; Modulation delta; Circuit integre numerique; Circuit integre lineaire; Implantation circuit integre; Modulateur

17/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1396839 NTIS Accession Number: PB88-252473

**National Technical Report (Matsushita Electric Industrial Company), Vol. 34, No. 3, June 1988**

Matsushita Electric Industrial Co. Ltd., Moriguchi (Japan).

Corp. Source Codes: 088966000

c1988 109p

Languages: Japanese

Journal Announcement: GRAI8824

Text in Japanese with English abstracts. See also PB88-196902.

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The special issue on traffic/car electronics contains: 3-Face car **audio** system with CD auto-changer; AM/FM tuner pack series for car **audio** ; **Audio** system for large **motorcycles** ; Loudspeaker with chitin-reinforced pulp diaphragm for automobiles; Ultra-thin inverted conical diaphragm speaker; High-power one-chip ICs for car **audio** ; FM-tuner IC series for car radios; Car antenna system; Car- **audio** visual communication system; 3-Inch full-color liquid crystal car TV; Car rear-view TV...

Descriptors: Automobiles; \*Television receivers; \*Radio equipment; Speed control; Automatic control; Steering; **Audio amplifiers** ; Loudspeakers; Tuners; Antennas; **Motorcycles**

available in file(s): 77

**18/3,K/1 (Item 1 from file: 6)**

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1278239 NTIS Accession Number: AD-A174 982/9

**DFVLR/FAA (Deutsche Forschungs-und Versuchsanstalt fuer Luft und Raumfahrt/Federal Aviation Administration) Propeller Noise Tests in the German-Dutch Wind Tunnel DNW. Appendix 6. The Effect of Engine- Cowling Installation**

Dobrzynski, W. M. ; Heller, H. H. ; Powers, J. O. ; Densmore, J. E.

Deutsche Forschungs- und Versuchsanstalt fuer Luft- und Raumfahrt e.V., Brunswick (Germany, F.R.).

Corp. Source Codes: 029496000; 405979

Sponsor: Federal Aviation Administration, Washington, DC. Office of Environment and Energy.

Report No.: DFVLR-IB-129-86/3-APP-6; FAA-AEE-86-3-APP-6

1986 241p

Languages: English

Journal Announcement: GRAI8706

See also AD-A174 976.

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NTIS Prices: PC A11/MF A01

**... Noise Tests in the German-Dutch Wind Tunnel DNW. Appendix 6. The Effect of Engine- Cowling Installation**

In this Appendix the test results on the effect of engine **cowling installation** are documented in terms of pressure time histories, narrow band spectra and unweighted as well...

**18/3,K/2 (Item 2 from file: 6)**

DIALOG(R)File 6:NTIS

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0616393 NTIS Accession Number: AD-804 698/9/XAB

**Supersonic Transport Development Program. Phase III Proposal. Boeing Model 2707. Aircraft Engine Installation Subsystem Specification**

Boeing CO Seattle Wash Supersonic Transport Div

Corp. Source Codes: 402097

Report No.: D6A10113-1

6 Sep 66 64p

Journal Announcement: GRAI7711

Distribution limitation now removed. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A04/MF A01

... inlet subsystems. The subsystem contains the engine, exhaust and thrust reverser assembly engine accessories, engine **mounting** provisions, engine controls, **cowling**, bleed air ducting, instrumentation plumbing and wiring.

**18/3,K/3 (Item 1 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

(c) 2002 Engineering Info. Inc. All rts. reserv.

03753695 E.I. No: EIP93111134203

**Title: Performance predictions of thermal anti-icing systems for an aero-engine intake using CFD methods**

Author: Riley, S.J.; James, E.H.

Corporate Source: Rolls-Royce plc, Derby, Engl

Conference Title: The 29th National Heat Transfer Conference

Conference Location: Atlanta, GA, USA Conference Date:  
19930808-19930811

E.I. Conference No.: 19249

Source: Gas Turbine Heat Transfer-1993 American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD v 242 1993. Publ by ASME, New York, NY, USA. p 11-20

Publication Year: 1993

CODEN: ASMHD8 ISSN: 0272-5673 ISBN: 0-7918-1155-7

Language: English

...Abstract: skin heating and the spent anti-icing air (emitted through an exhaust slot in the **cowling**) is allowed to **join** the main engine inlet flow to provide heating of the downstream surface. It is concluded...

**18/3,K/4 (Item 2 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

(c) 2002 Engineering Info. Inc. All rts. reserv.

00085968 E.I. Monthly No: EI70X030642

**Title: Engine performance for the business jets.**

Author: SMITH, L. D.

Source: SAE-Paper 700209 for meeting Mar 18-20 1970, 6 p

Publication Year: 1970

Language: ENGLISH

...Abstract: thrust rating on inlet temperature and the resultant loss of rated thrust that comes from **cowling** and accessory **installation**.

**18/3,K/5 (Item 1 from file: 94)**

DIALOG(R)File 94: JICST-EPlus

(c)2002 Japan Science and Tech Corp(JST). All rts. reserv.

03954543 JICST ACCESSION NUMBER: 99A0154117 FILE SEGMENT: JICST-E

**My preparation note (438). The helicopter flight safety (25).**

YOKOYAMA NAOYUKI (1)

Koku Gijutsu(Aviation Engineering), 1999, NO.526, PAGE.64-70, FIG.7, TBL.1

JOURNAL NUMBER: F0175AAA ISSN NO: 0023-284X CODEN: KKGJA

UNIVERSAL DECIMAL CLASSIFICATION: 656.7.08

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: for the leak source decision by the mechanic of the factory.  
After the cleaning, the **cowling** was **installed**, and the engine was driven in about 15 minutes, and it was confirmed that the...

...packing by the mechanic. After the packing exchange, the mechanic asked whether check it before **cowling** re- **mounting**. It was judged that there was not the necessity, and all were returned to the...

**18/3,K/6 (Item 1 from file: 99)**

DIALOG(R)File 99: Wilson Appl. Sci & Tech Abs

(c) 2002 The HW Wilson Co. All rts. reserv.

1152470 H.W. WILSON RECORD NUMBER: BAST94021035

**Ryan's art deco delight**

AUGMENTED TITLE: SC-W145

O'Leary, Michael;

Air Progress v. 56 (Mar. '94) p. 6-11+

DOCUMENT TYPE: Feature Article ISSN: 0002-2500

...ABSTRACT: It was powered by a Warner Super Scarab radial engine of 145 hp, which was **installed** under a **cowling** with streamlined rocker arm covers. The Art Deco-inspired styling of the SC-W ensured...

22/3,K/1 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv..

09632517  
Pojkar och deras elektroniska prylar  
Sweden/Turkey: Virtual reality beats **mountainbikes**  
Computer Sweden (AUX) 09 nov 2001 p.6  
Language: SWEDISH

Sweden/Turkey: Virtual reality beats **mountainbikes**

European men age 18-25 consider **Cd players** and mobile phones to be the most important electronic gadgets, according to research by the...

...some 1,300 men in Sweden and Turkey, also found the Internet, computers, e-mail, **mp3 - players** and Playstations to be a high priority. Indeed, the respondents considered being on the Internet or playing virtual reality games to be cooler than riding a **motorcycle** or **mountainbike**. Text messaging and Game Boy were thought of as very uncool.

22/3,K/2 (Item 1 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

06781298 SUPPLIER NUMBER: 110002801  
**An Economy Car Rich With Style**  
Brown, Warren  
Washington Post, p N.01  
Mar 3, 2002  
ISSN: 0190-8286 NEWSPAPER CODE: TWP  
DOCUMENT TYPE: Product Review-Favorable; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: door take on the Focus ZX3 hatchback, is essentially an economy car, a spirited urban **scooter** that gets about 25 miles per gallon in the city and nearly 34 mpg on...

...remote keyless entry system, a tilt and telescoping steering wheel, and a six-disc, dashboard- **mounted CD player**. That means the ZX5 offers more than many consumers would expect to find in an...

22/3,K/3 (Item 2 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

05642885  
**DRINK; A Theme Park for Wine Lovers; Vinopolis opens in London.**  
Smith, Rod  
Los Angeles Times, Sec H, p 1, col 1  
Jul 21, 1999  
ISSN: 0458-3035 NEWSPAPER CODE: LA  
DOCUMENT TYPE: Feature; Newspaper  
LANGUAGE: English RECORD TYPE: ABSTRACT  
LENGTH: Long (18+ col inches)

...ABSTRACT: most celebrated beverage (after Coca Cola and Bud Lite, of course). Straddle an Italian motor **scooter** with a video screen **mounted** on the handlebars and whiz through Tuscany and Piedmont via film shot with a **Vespa - mounted** camera! Sit in a mock-up of an airliner and watch a film about wine...

...go. Like the British Museum and the National Gallery, Vinopolis provides visitors with a personal **CD-ROM player** offering up to four hours of enlightening propaganda read by British wine-trade luminaries such  
...

22/3,K/4 (Item 3 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

05142313

**California / News and Insight on Business in the Golden State; Testing the Waters; Toyota Dips Into the U.S. Boat Business**

O Dell, John

Los Angeles Times, Sec D, p 2, col 1

Jul 28, 1998

ISSN: 0458-3035 NEWSPAPER CODE: LA

DOCUMENT TYPE: News; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Long (18+ col inches)

...ABSTRACT: Since World War II, Toyota has mainly been a car maker. Now, it intends to **join** counterparts such as Honda, which makes outboard motors, power generators and **motorcycles** . Prices have not yet been set, but Toyota expects to sell the 20-foot-10...

...000. The prices include a boat trailer, custom-fitted boat cover and an on-board **CD player** . Sans extras, the boats probably would sell in the \$28,000 to \$30,000 range..



File 9:Business & Industry(R) Jul/1994-2002/Sep 19  
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File 15:ABI/Inform(R) 1971-2002/Sep 19  
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File 484:Periodical Abs Plustext 1986-2002/Sep W3  
(c) 2002 ProQuest

File 553:Wilson Bus. Abs. FullText 1982-2002/May  
(c) 2002 The HW Wilson Co

File 624:McGraw-Hill Publications 1985-2002/Sep 19  
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File 88:Gale Group Business A.R.T.S. 1976-2002/Sep 19  
(c) 2002 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2002/Sep 20  
(c) 2002 The Gale Group

File 570:Gale Group MARS(R) 1984-2002/Sep 20  
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(c) 2002 The HW Wilson Co

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(c) 2002 The Dialog Corp.

File 20:Dialog Global Reporter 1997-2002/Sep 20  
(c) 2002 The Dialog Corp.

File 608:KR/T Bus.News. 1992-2002/Sep 20  
(c)2002 Knight Ridder/Tribune Bus News

File 112:UBM Industry News 1998-2002/Sep 20  
(c) 2002 United Business Media

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(c) 1999 The Gale Group

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(c) 2002 The Gale group

File 80:TGG Aerospace/Def.Mkts(R) 1986-2002/Sep 20  
(c) 2002 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2002/Sep 20  
(c)2002 The Gale Group

File 634:San Jose Mercury Jun 1985-2002/Sep 19  
(c) 2002 San Jose Mercury News

File 635:Business Dateline(R) 1985-2002/Sep 19  
(c) 2002 ProQuest Info&Learning

File 647:CMP Computer Fulltext 1988-2002/Sep W1  
(c) 2002 CMP Media, LLC

File 674:Computer News Fulltext 1989-2002/Sep W3  
(c) 2002 IDG Communications

File 696:DIALOG Telecom. Newsletters 1995-2002/Sep 19  
(c) 2002 The Dialog Corp.

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	194989	MOTORCYCLE? OR MOTOR() (CYCLE? OR BIKE?) OR MOTORBIKE?
S2	44734	SCOOTER? OR VESPA OR MOPED OR SPORTSBIKE?
S3	294939	(SOUND OR RADIO OR STEREO OR AUDIO) (3N) SYSTEM?
S4	9437	AUDIO(3N)AMPLIF?
S5	3058	CAPACITOR?(5N) (POWER() SUPPL? OR BATTER?)
S6	85	(INCORP? OR MOUNT? OR JOIN? OR INSTALL? OR ATTACH?) (3N) COW-

```

      LING
S7    176    (S1 OR S2) (10N) (COMPACT()DIS?? OR CD OR CASSETTE OR MINIDI-
      S?? OR MP3) (3N)PLAYER?
S8    18     S4(S)S5
S9    0      S8(S)S7
S10   15     S8 NOT PY=>2000
S11   6      RD S10 (unique items)
S12   0      S7(S)S4
S13   0      S7(S)S5
S14   0      S7(S)S6
S15   257    (S1 OR S2) (S)S3
S16   0      S15(S)S6
S17   1      S15(S)S4
S18   1      S17 NOT S10
S19   0      S15(S)S5
S20   23     S15(S) (POWER()SUPPL? OR BATTER?)
S21   0      S20(S)CAPACITOR?
S22   22     S20 NOT (S8 OR S17)
S23   14     S22 NOT PY=>2000
S24   5      RD S23 (unique items)
S25   15     S7(S) (HOUSED OR HOUSING OR INCORP? OR MOUNT? OR JOIN? OR I-
      NSTALL? OR ATTACH?)
S26   15     S25 NOT (S20 OR S8 OR S17)
S27   9      RD S26 (unique items)
S28   1016   AU=(BARNES, R? OR BARNES R?)
S29   0      S28(S) (S1 OR S2)

```

11/3,K/1 (Item 1 from file: 484)  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2002 ProQuest. All rts. reserv.

03745047 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Build a Low-Power AM Transmitter**

Sheets, William; Graf, Rudolf F

Electronics Now (GRAD), v69 n6, p39-47, p.9

Jun 1998

ISSN: 1067-9294 JOURNAL CODE: GRAD

DOCUMENT TYPE: Instructional

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4547

TEXT:

... of those resistors. Since the voltage across a capacitor does not change instantaneously a large **capacitor** can also act like a **battery**. The effect is a constant voltage across R13, and therefore a constant drive current. That...

...of Q7 can reach almost to the full supply voltage. That technique, widely used in **audio** power **amplifiers**, is called bootstrapping. Since the RF output of the RF stage is proportional to the...

11/3,K/2 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

02128704 Supplier Number: 55252277 (USE FORMAT 7 FOR FULLTEXT)

**National Semiconductor Launches Ultra-Compact Dual Output Switched Capacitor Regulator.**

Business Wire, p0317

July 26, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 453

... of space, without inductors."

The LM2685 provides a dual output (+5V regulated and -5V unregulated) **power supply** by using switched **capacitor** and LDO techniques. The +5V regulated power supply is required for components such as **audio** CODECs, **amplifiers** and SIMs. Additionally, the -5V can be used for contrast bias for liquid crystal displays...

11/3,K/3 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04394428 Supplier Number: 55311639 (USE FORMAT 7 FOR FULLTEXT)

**NATIONAL SEMICONDUCTOR: National Semiconductor announces dual output switched capacitor regulator.**

M2 Presswire, pNA

July 30, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 514

... of space, without inductors."

The LM2685 provides a dual output (+5V regulated and -5V unregulated) **power supply** by using switched **capacitor** and LDO techniques. The +5V regulated power supply is required for components such as **audio** CODECs, **amplifiers** and SIMs. Additionally, the -5V can be used for contrast bias for liquid crystal displays...

11/3,K/4 (Item 1 from file: 141)

DIALOG(R)File 141:Readers Guide  
(c) 2002 The HW Wilson Co. All rts. reserv.

03572819 H.W. WILSON RECORD NUMBER: BRGA97072819 (USE FORMAT 7 FOR FULLTEXT)

**The new/old autodyne.**

Carr, Joseph J.

Popular Electronics (Pop Electron) v. 14 (Aug. '97) p. 39-43+

WORD COUNT: 3474

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... e., change output frequency, when the load impedance changes.

Figure 9 shows a high gain **audio amplifier** for use with direct conversion receivers. The circuit is built around an LM386 **audio amplifier** (housed in an 8-pin DIP package) that is used to drive an 8-ohm ...

...circuit is applied to pin 3 of IC1 through a 10k audio gain (VOLUME) control. **Capacitor**, C2, connected from the DC **power supply** to ground, is used to filter the source voltage applied to pin 6 of IC1...

11/3,K/5 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2002 The Gale Group. All rts. reserv.

06012009 Supplier Number: 53415475 (USE FORMAT 7 FOR FULLTEXT)

**Design Superior Performance Into Audio Circuits.**

MURPHY, TROY

Electronic Design, p10(1)

Nov 16, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2069

... s power supply pins.

A more aggressive measure is to add two transistors to the **audio amplifier** (Fig. 4). The transistors are configured as emitter followers connected to the amplifier's supply...

...with a much lower corner frequency than you would get using a solitary supply bypass **capacitor**. This circuit will reduce potential **power supply** feedthrough noise and can even improve the amplifier's distortion.

Of course, using this configuration...

11/3,K/6 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2002 The Gale Group. All rts. reserv.

10222178 SUPPLIER NUMBER: 20641323 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**What's All This Soakage Stuff, Anyhow? (Dielectric Absorption)**

Pease, Bob

Electronic Design, v46, n11, p125(1)

May 13, 1998

ISSN: 0013-4872 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2566 LINE COUNT: 00183

TEXT:

...a minute, and come back an hour later, what is the voltage? The oil-filled **capacitor** used in the high-voltage **power supplies** of old radios, was pretty bad--as much as a 20% voltage error. That's...and-hold, and connect it to an 8-O load. Then, drive it from an **audio amplifier** with 10 of output impedance. If you put 160 kO across 80, it would definitely...

18/3,K/1 (Item 1 from file: 141)  
DIALOG(R)File 141:Readers Guide  
(c) 2002 The HW Wilson Co. All rts. reserv.

03536876 H.W. WILSON RECORD NUMBER: BRGA97036876 (USE FORMAT 7 FOR  
FULLTEXT)

**Industry resources 1997/1998.**

AUGMENTED TITLE: special issue

TCI (TCI) v. 31 (June/July '97) p. 14-18+

WORD COUNT: 215730

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... Hours: 8:00AM - 5:00PM, Mon - Fri

A full production house offering video projection, staging, **sound**  
and custom set design, in addition to complete lighting services. Provides  
any scale of lighting...

24/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

02400337 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TMF Rebel finally goes to market**

(Bolder Technologies Corp launched its **TMF** battery products, which includes the new **TMF Rebel** rechargeable battery packs; Bolder's potential market is \$13 bil)

Batteries International, n 38, p 12

January 1999

DOCUMENT TYPE: Journal ISSN: 0957-9246 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 434

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...the design of their products. Bolder and its VAPs are working with customers to design **batteries** into a wide range of products for various applications, including emergency car and truck starting, generator starting, **motorcycle** starting, welding equipment, high-end **audio systems**, power quality maintenance, standby power, aircraft starting and instrumentation."

The TMF Rebel product line includes...

24/3,K/2 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01748400 Supplier Number: 53177728 (USE FORMAT 7 FOR FULLTEXT)

**BOLDER Technologies Corporation Reports Third Quarter Results.**

PR Newswire, p6666

Nov 5, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1355

... then gather momentum as product designers learn about the unique capabilities of BOLDER's TMF **batteries** and begin to use them to build better products. Recent strong increases in sample shipments...

...process has begun. BOLDER is currently working with its Value Added Partners to design TMF **batteries** into a broad range of products for current and future market applications, including emergency car and truck starting, generator starting, **motorcycle** starting, welding equipment, high-end **audio systems**, power quality maintenance, stand-by power systems, aircraft starting, and instrumentation."

Additions to Board and...

24/3,K/3 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01741967 Supplier Number: 53143101 (USE FORMAT 7 FOR FULLTEXT)

**BOLDER Technologies Introduces TMF Products to Value Added Partners.**

PR Newswire, p1953

Oct 29, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 621

... the design of their products. BOLDER and its VAPs are working with customers to design **batteries** into a wide range of products for various applications, including emergency car and truck starting, generator starting, **motorcycle** starting, welding equipment, high-end **audio**

**systems** , power quality maintenance, standby power, aircraft starting, and instrumentation."

The TMF REBEL product line includes...

24/3,K/4 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04043854 Supplier Number: 53414801 (USE FORMAT 7 FOR FULLTEXT)  
**LEAD CONTAINING Bolder Rolls Out TMF Products.**  
Battery & EV Technology, n23, pNA  
Nov 19, 1998  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 318

... the design of their products. Bolder and its VAPs are working with customers to design **batteries** into a wide range of products for various applications, including emergency car and truck starting, generator starting, **motorcycle** starting, welding equipment, high-end **audio systems** , power quality maintenance, standby power, aircraft starting, and instrumentation."

The TMF Rebel product line includes...

24/3,K/5 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2002 The Dialog Corp. All rts. reserv.

04333377 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**CZECH REP: AUTO PARTS MARKET (1)**  
JANA RUCKEROVA  
INDUSTRY SECTOR ANALYSIS  
January 11, 1999  
JOURNAL CODE: FISA LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 4634

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... car seats, seat covers, plastic car accessories, immobilizers, horns, tools, car-care products, wiper blades, **battery** testers, fuel and diesel filters, fuses etc. - car audio: systems Gelhard, car radios, CD - changers, speakers, equalizers, car radio accessories, antennas etc. - **motorcycle** helmets and accessories. Note: This company has been contacted by CS Prague office. It is...

27/3,K/1 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2002 The Gale Group. All rts. reserv.

05668272 SUPPLIER NUMBER: 70429862

**Mexican promotion wins prizes.**

Food Management, 36, 1, 89

Jan, 2001

ISSN: 0091-018X LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 59 LINE COUNT: 00008

TEXT:

...between Sept. 1,2000 and May 31, 2001 will earn points redeemable for prizes including **mountain** bikes, DVD/ **CD players** , color TVs, Razor **Scooters** and gift certificates.

27/3,K/2 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2002 The Gale Group. All rts. reserv.

04164812 Supplier Number: 54563009 (USE FORMAT 7 FOR FULLTEXT)

**Cambodia to lower tariffs under AFTA from next Jan.**

Asian Political News, pNA

May 3, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 361

... Asian trading partners to less than 5% starting next January, as the country will officially **join** the Association of Southeast Asian Nations (ASEAN) on Friday, according to an ASEAN official document...

...goods. Eight items, however, have fixed U.S. dollar tariffs. They are cigarettes, beer, petroleum, **motorbikes** , soft drinks, televisions, video-**cassette** recorders and radio- **cassette players** . Excluding petroleum, the Cambodian government has earned an annual average of 200 billion riels (50...

...2002. The less developed members -- all of them newcomers -- have their own schedules. Vietnam, which **joined** the group in 1995, will reduce tariffs by 2006. Laos and Myanmar, admitted to ASEAN...

27/3,K/3 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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03919783 Supplier Number: 50149107 (USE FORMAT 7 FOR FULLTEXT)

**-NGAI LIK: Ngai Lik Industrial Holdings Limited announces 1997/1998 annual results**

M2 Presswire, pN/A

July 9, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1280

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...year. "Also, we recently worked with a subsidiary of the Ministry of Civil Affairs to **jointly** develop a digital video tape player to be used for educational purposes in the PRC...

...of a wide variety of consumer audio products such as mini hi-fi systems, portable **cassette** / **CD players**, car radio **cassette players** , compact **cassette** and **CD players** , etc. In addition, the Group also manufactures **motorcycle** engines and trades **motorcycle** engine parts. It has been listed on the Stock Exchange of Hong Kong Limited since...



27/3,K/4 (Item 1 from file: 20)  
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13700149

**1st Ed - ALL OVER THE SHOW**

SECTION TITLE: Arts & Leisure

David Furlonger

FINANCIAL MAIL, p124

November 09, 2000

JOURNAL CODE: WFML LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 643

...will be launched in SA late next year. People around the world have an emotional **attachment** to the Mini. The new version is dynamic and youthful. It will be sold as...

27/3,K/5 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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13397428 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**What The Well Dressed Vespa Is Wearing This Season**

EVENING STANDARD, p16

September 28, 2000

JOURNAL CODE: FES LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 452

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... For the girl about town, however, there can be only one choice - the Bridget Jones **scooter** designed by writer Helen Fielding.

It **incorporates** essential devices such as a **CD player** for 'blasting out Eagles' hits to create pleasing illusion of roaring along desert highway'; 'box...

27/3,K/6 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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13103302 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Hot wheels**

GREG GORDON

SCOTSMAN, p11

October 02, 2000

JOURNAL CODE: FSCT LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 702

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... one choice - the Bridget Jones scooter designed by her creator, Helen Fielding. The writer's **scooter incorporates** such essentials as a **CD player** for "blasting out non-stop Eagles hits". Other accessories include a "box for a small...

27/3,K/7 (Item 4 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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09622115 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**New Tmnet package from Telekom**

NEW STRAITS TIMES (MALAYSIA)

February 17, 2000

JOURNAL CODE: FNST LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 131

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... three personal computers worth RM3,500 each, 10 compact disc players worth RM500 each, 10 **mountain** bikes worth RM300 each, and 100 consolation prizes.

27/3,K/8 (Item 5 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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08089024

**Selling cars, choosing stereos, building motorcycles**

ALISA PRIDDLE

FINANCIAL POST, p09

November 05, 1999

JOURNAL CODE: FFP LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 347

... production accomplishes two things: an engine built for a specific model of motorcycle can be **installed** in minutes instead of hours, and the transfer will free a production line at the...

27/3,K/9 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
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2259185 111589607

**Ex-techie comes home to launch Graffiti Sound**

Hatch, Addy

Journal of Business v17n6 pA8

Mar 7, 2002

WORD COUNT: 277

DATELINE: Post Falls Idaho

TEXT:

...project, including land, is about \$450,000, Kemp says.

Graffiti Sound Solutions will sell and **install** a variety of mobile electronics, including audio, video, navigation, and security systems for cars, boats, recreational vehicles, and **motorcycles**, he says. Such systems can range from \$400 for an AM/FM radio, **CD player**, and speakers, to more than \$80,000 for a custom-built setup, he says.

Kemp..